SEQUENCE LISTING

<110> Recipon, Herve
Sun, Yongming
Chen, Sei-Yu
Liu, Chenghua
Turner, Leah

<120> Compositions and Methods Relating to Lung Specific Genes and Proteins

<130> DEX-0243

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<150> 60/243,259
<151> 2000-10-26

<160> 244

<170> PatentIn Ver. 2.1

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<211> 131
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<223> a, c, g or t

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<223> a, c, g or t

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<222> (394)
<223> a, c, g or t

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gaagggtctg ggactgaggg gatgcctggg tcactgctgc ccactgcctc tacagaccaa 300
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<210> 17
<211> 665
<212> DNA
<213> Homo sapiens

<400> 17
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ctaga 665

<210> 18
<211> 465
<212> DNA
<213> Homo sapiens

<220>
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<222> (14)
<223> a, c, g or t

<220>
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<222> (171)
<223> a, c, g or t

<220>
<221> unsure
<222> (339)
<223> a, c, g or t

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ggagaaaaac tgggtacaaa cggttgctgt accttaaaaa ccaca 465

<210> 19
<211> 635
<212> DNA
<213> Homo sapiens

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gatagtattc agaccatttc caggagcccg tttgg 635

<210> 20
<211> 375
<212> DNA
<213> Homo sapiens

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ttggtacgtg ttaagctctg tagaaggaga cattaatgtg ggttggagtg atgagagaag 180
gcttcctgaa agaagtggtc tgtagcagaa cctaggtgaa cctaggtgga aataaaatca 240
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<210> 21
<211> 907
<212> DNA
<213> Homo sapiens

<400> 21
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<210> 22
<211> 501
<212> DNA
<213> Homo sapiens

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tttaaaattt gggtggtctt atctccaatg gaaagatctt tctccatgat taccagattg 360
cttgcaactc tcagaagcaa ggataaaaat tacaaaggac ctcaggagtc cagaactttt 420
gcatagaaac aataatataa attgtcctta gatttcccta atcagccact cacagtatag 480
ctaagaacct gcacatctgt g 501

<210> 23
<211> 551
<212> DNA
<213> Homo sapiens

<400> 23
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acaggactgt gctccagagg cacgcaccct ttatcacact caagagggcg gacatgcttt 180
accaccggag aacggggaaa acaaccgtat tatttcaaca aataatttca aaacaaaaaa 240
caaagaggga ttgaaagaga cttaaaagaa ccataaacca aaggcaatgt gtagatctga 300
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ctaatgtcaa ttttaagatg taataatggt attgtagttt tgtttttta aaatgcattg 480
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ataaagaatt g 551

<210> 24
<211> 206
<212> DNA
<213> Homo sapiens

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cctcagcaat attttacacc actctgtttt tcttattcat atgttgattt gaaagttctt 180
aaatgatctg agtgtaccta tagttc 206

<210> 25
<211> 779
<212> DNA
<213> Homo sapiens

<400> 25
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ttaatgcttt tcattgataa atgctttacc agccctttg taaggttctt tcatttcttg 720
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<210> 26
<211> 754
<212> DNA
<213> Homo sapiens

<400> 26
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actctagact gcagggacta gcctcattag tgtgaaatgg tagtaggcat tctgatttcc 720
ctttaaaaag gactatactg gctgggtgca gtgg 754

<210> 27
<211> 162
<212> DNA
<213> Homo sapiens

<400> 27
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gtagatcaga atatcaactt ctagtttaag ataacagatt ga 162

<210> 28
<211> 494
<212> DNA
<213> Homo sapiens

<400> 28
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tggaaaggag gcca 494

<210> 29
<211> 749
<212> DNA
<213> Homo sapiens

<400> 29
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<211> 507
<212> DNA
<213> Homo sapiens

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gtattttagt gaaaagagcc agaaata 507

<210> 31
<211> 418
<212> DNA
<213> Homo sapiens

<400> 31
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tgcagatcta taaatgtggc cagaaaatcc aaactagttc catcaaggag ggtgcaga 418

<210> 32
<211> 863
<212> DNA
<213> Homo sapiens

<400> 32
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<210> 33
<211> 639
<212> DNA

<213> Homo sapiens

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<211> 228
<212> DNA
<213> Homo sapiens

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gttttaaaag attaaaatca taaaaagtat cttctatgac cacaatag 228

<210> 35
<211> 131
<212> DNA
<213> Homo sapiens

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ttacgttacc t 131

<210> 36
<211> 533
<212> DNA
<213> Homo sapiens

<400> 36
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<210> 37
<211> 667
<212> DNA
<213> Homo sapiens

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<210> 38
<211> 800
<212> DNA
<213> Homo sapiens

<220>
<221> unsure
<222> (230)..(534)
<223> a, c, g or t

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<210> 39
<211> 748
<212> DNA
<213> Homo sapiens

<400> 39
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ttgagttaat gaagaatgca gcaattatta gtaaaatttg gtgctccacc ttgattcata 180
ctgacactcc aggagtttta cccactattt cttttgtacc tttagtgcaa atgttaatat 240
ggtaggaatg gtaaatgaca tctttagtat tattataaaa aatcgttttt accctgtata 300
ctctttgaga ctacacattg agaattgctg atgaaggtgt tttaatttat cataagcact 360
gaaaagattt acttaattca ccaatttctc ctgaatattt gtttatataa aacaagacta 420
tgtgtataca cctacctttt tattaatggt agagatctag gaaaattaat ttctaagaac 480
tagccaggat atttggaatg tgaataaatc atatatccag aaaaaagctt tagaagattg 540
tctatggatt gaaagtccaa acagctctca tttctattat actgttcttt ttcaaagaat 600
ttaccaattt tatgtggtat ttatgattaa acatacacca tgtaatttaa cattttaat 660
gtcactttta catcataggt attaaagatt agcattttta ttgtctgtat tttaaagctc 720
aaagaataac atttaggctg ggtgcggt 748

<210> 40
<211> 612
<212> DNA
<213> Homo sapiens

<400> 40
tagaggtaaa cattttgct taggagtgtt ttacatgcca atcacttttg gcaaaatttg 60
gttagaaact acacattata aaaccttgtt ggaaatacat taaggcagtc aaatgcaaag 120
ccccagaatg atagaggact acttgttgct agatcagcat gctgtgtggc gctggagaag 180
gaattcattt cggtttaggc aaaagccaag ctatctgagt ttatactaca taaatttttt 240
catgacaaga gttgaggtca atgttttgaa gtgataaatg ggtgaaggta aatggctgta 300
tcaaacaatt atcaggttcg gaagactaag gaaatcaaca gaaacaagta aaaacgcact 360
gcgtttgctg acacaataaa tattgctgcc taataaaaca gagctgagag agggtgtatt 420
atgattgcat atttatgggt tgctgtgttc attgatgatc ttttagtaaa taatttgttg 480
aaaagaagct ttcagtttaa attttgactc agttgtagat ttacaaatgc agtgtgtgtg 540
tatgtgtgtt taatcttcct ttgttatttt ttcttatctg tgtaatgtga gtgaattatt 600
ttatcttatc ta 612

<210> 41

<211> 234
<212> DNA
<213> Homo sapiens

<400> 41
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gcctctcatg cttctatttg ttaccaaatg tctggaatga gaaagtgtcc atgatgggaa 120
atagcccaca gaagtaccat accattatta aaccgaccag acggaggccc taggtcactg 180
ggatacgagc aaactgtgct ggggttcagt gggtgggtta ggaggctggg gaga 234

<210> 42
<211> 823
<212> DNA
<213> Homo sapiens

<400> 42
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tctcatgctt ctatttgtta ccaaatgtct ggaatgagaa agtgtccatg atgggaaata 120
gcccacagaa gtaccatacc attattaaac cgaccagacg gaggccctag gtcactggga 180
tacgagcaaa ctgtgctggg gttcatgtgg gtgggttagg aggctgggga gagcatgaca 240
ggggatgtgc agacagacaa ataaatccga taataaagca gaagctcaga actgtccaaa 300
atgatgactg aaagccagca gcccaaggag aggctgctct taacagccag cccccaacgc 360
ttagggctgt gctctgcacc aacctgccct agtgtcctgg ggagggaacg taaacagttc 420
agcgctttct atttaactgc aaagtgctca tcttctgagt caccgaggca aagaagcagg 480
ctggaaagta gtaataatcc aatccaacag aattatctgt tgaacagaaa atccccctttg 540
gaatttgtgt ccttggaacg ttccaaatgg aaaatgagag ttttcaggtg ggaaagcaag 600
gcatggtttc atgagtcagg gtgactctgc gtttgcatga agggccgcag aaaagcagat 660
tatgttaacc ttgaaattag ccaggagcga atggcaaatc tttgttaaca agcttggagt 720
ccacgataaa ttttaaaagt gcaccgcaat gagcatctgt aataaatctt ccgttgcctc 780
ctggttcagg tctggacctg aaaaggataa aggggccggg cgc 823

<210> 43
<211> 589
<212> DNA
<213> Homo sapiens

<400> 43
aaaaaggagg aacaacatca catttaagct ttctccttgc caaatataat aaaagtttta 60
aaaggacagt cttaaagtta tctcattagt ttacttccct tcaaaaacac accacatacg 120
tatgactctt aaagttgttt gggaccaaaa atgagttacc atttaattac ctctgaattt 180
tcatcacaat cagatgggtt acttatttga ccttttctcc taaagctctt cttggaatat 240
gtcaacaatg tgtaactaca gggaataatg ccaaggaaga agcttttctt gccttgagtt 300
acaggcttgt tcttggtaaa attacttacc ttggtttgtt ttgtttttc tctttatttt 360
ttttcccagt taaatctgat agagcagata tacaagttag cccttgggtt attaatgata 420
aatggaaaaa cttaatccaa aagtagaaaa tgaaacgata ggtaccttgt agatttaatg 480
atttttaaaa gttattttgg tgctgctgtt tgttatctcc ctctcgcgtt ttgcatgaaa 540

agacatagtt taagtatttt attaagagaa gattgaggcc aggcacagt 589

<210> 44
<211> 649
<212> DNA
<213> Homo sapiens

<220>
<221> unsure
<222> (134)..(165)
<223> a, c, g or t

<400> 44
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tatctcttcc actnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnggcaa ttgcaggtat 180
attcttgttt ctttttttta tcagagctca tttaggttta ttgcccattt ttctatctaa 240
gaaaagagct actggccaga ggatattgat attacttcta aaatgaatgc cattcttgac 300
tgtcagtcct ttgaaaattt aactttagtt tttttggtct tggcaaagac ttgttgattt 360
ttaaattggt tgtagaaagt tttcttagag ttgtagaatt tttgagttgg aaaagacctt 420
gggagtcaca tagtttcttt aataaaattc ctgatagatg attattcaac ttgattaaag 480
tagtactatc tgctctgaat taaaatttag aacaaaaatc acctgccgtg ccactacaca 540
tggacataat caactgctaa attatgattt gttttcttcc agttactttt ccaattattt 600
tacatataca aatattttct tggtagaaga acaaaagtgg cactattca 649

<210> 45
<211> 273
<212> DNA
<213> Homo sapiens

<220>
<221> unsure
<222> (115)
<223> a, c, g or t

<220>
<221> unsure
<222> (160)
<223> a, c, g or t

<220>
<221> unsure
<222> (196)..(197)
<223> a, c, g or t

<220>

<221> unsure
<222> (205)..(206)
<223> a, c, g or t

<220>
<221> unsure
<222> (209)
<223> a, c, g or t

<220>
<221> unsure
<222> (213)..(214)
<223> a, c, g or t

<220>
<221> unsure
<222> (234)
<223> a, c, g or t

<220>
<221> unsure
<222> (238)
<223> a, c, g or t

<220>
<221> unsure
<222> (243)
<223> a, c, g or t

<220>
<221> unsure
<222> (255)
<223> a, c, g or t

<220>
<221> unsure
<222> (259)
<223> a, c, g or t

<220>
<221> unsure
<222> (269)
<223> a, c, g or t

<400> 45
atgttattgt ttttcttttg actacttgtt ggatgtttct ccttatcttt catttttagt 60
tgtttgactg tgtgtgaatt tcattgtatt tatcctgttg gaattcattg agctncttaa 120
tttcagggat ttaggatttt catcaaactt ggaaatcttn aggtcaatat ttctttgtca 180

tttctttttc tttttnnttt taacnnccna ggnncttaag ggcaatattt tttnaatntt 240
gtnttactgc attcnctcnc ccttccccnt ttt 273

<210> 46
<211> 716
<212> DNA
<213> Homo sapiens

<220>
<221> unsure
<222> (700)
<223> a, c, g or t

<400> 46
ctgttcttta aaagagtaac aatcatttcc tcaatagctt ttcagctctt catacccagc 60
aatagttctt aggttttata gctgatactt tgnatcatgt taattatggg tgacaaccct 120
gaacaacaac ccaaagcatc tatcagcacc tatccatcag tgattaactc agagtaggct 180
ctcaatgtat tttttgaata aatgcttatc atcgattata atgaagatca caaattgtgc 240
tggaacctaa ccagttatag attccttgca tggatataag aatgataaga gttacaatta 300
aagtgttata acactgagtt gtgtgtccta atccgaaagt attcttgctt ccatatagta 360
gagaaaattt tttgtgatgc agttacagtg cttaataaag cttcatacat ggaaactctc 420
agtaaatgct tattgttgtc attattggtg taaattaaat ctgaatatta gttcacatat 480
ttaagtggcc cttttggtat ccgttttcac tcttcagatt ttttttctct cattttttgg 540
ggggaagact cttcttttt tcaatgctgc tcaagatttt ctatttttta aattagagaa 600
ttttctatta ttgttgctac cttccttaga tgataaatca gtagcaagct gactggtttt 660
tatcaaaatt gatgttctga tattggagaa cacagaactn ttagatgtta acctgg 716

<210> 47
<211> 97
<212> DNA
<213> Homo sapiens

<220>
<221> unsure
<222> (94)
<223> a, c, g or t

<400> 47
cttgcccctg caagttttat tcttggagct cttatgagta cgtctatgat ctattttgag 60
tatgatatga ggtaggggtc catttcattc tttngtg 97

<210> 48
<211> 699
<212> DNA
<213> Homo sapiens

<400> 48
gaacttttttt tttccatgtt tcttgatcct atctgttgat gagggctgga agttcaagaa 60
agtataaatt taaattattt taacctgaaa aataaagcca gagaacttga ttgaaaagca 120
ccccaaagac tgtgttgaaa tctgcattgc aaatactgat ggaaacttat ccttgttttc 180
tttgttttat gcattacttt accatcttgc catagtcatt agctttgcac ctatttaggt 240
tacagcataa aatctaggaa ctccactttg aagggatcat ggttattctt aattagaaat 300
tgtcaattta gccttaagta ttttatttt tgaaatgttt tatgataatg tgaagtaaac 360
catgccatta tttctcattt ttcccttggt taacaaatta ggatatacaa atcttcaaat 420
tacctttaag gcttgtaaac attcaaatct tttatccgtt agtcaagtta tttcataaac 480
ccaacattgc ctctgaaatg gctttacaca caaagaggat tttaccataa aatgcttgtg 540
gtgtttcatt ctcttctgat tttttgtagg ggaaggggtt tggagagtag gcagagtata 600
aattaatttg gatggtgttg gtttcaaagt agcattccat gtaattctgc agaaagtatg 660
ataaataaga aaatgggcca ggcatggtgg ctcatgcca 699

<210> 49
<211> 1364
<212> DNA
<213> Homo sapiens

<400> 49
gtcatttgta gaggctagag gttagtgtta ttaataagat atctagttca gtcatattac 60
ctaggcaaca ggtaatgttt tagatagtga atggtgagtt atttgatctc aaagaaatca 120
atatgtgaaa taggatgtac ataacttcag aagttgactt gtgaagtccc tattttcttt 180
ggctggtcat taggctgcta agtagaatga ctgacttttg tatggttttc ttccacaata 240
gtgctttttc tttcggttcc ctacctatga acttttcctg aactttccta caagtttaaa 300
aagttgttat ggcctctcta tacagtagac atccaattct ttgttaactg gaaaaaagtt 360
tcagaagttt aaatttgaag taacaggaat tggtccaaaa tatttgttgt tgctcatgtt 420
ttaaataagc gacattggat tatatcagca ctgggataat tcccattagg tattatgact 480
gcaatttaca tgcaattgga aattagtgat tgagagggaa acagattgcc aaattatctt 540
ccaaaaaggt actccccact ccatatcctt gctaataaca agtattataa ttatttaaag 600
tcattgccaa cttgataggc aaaatattgt cttgttctaa tgttcatttc ttctattgtg 660
aaggcgaact tttttttcc atgtttcttg atcctatctg ttgatgaggg ctggaagttc 720
aagaaagtat aaatttaaat tattttaacc tgaaaaataa agccagagaa cttgattgaa 780
aagcacccca aagactgtgt tgaaatctgc attgcaaata ctgatggaaa cttatccttg 840
ttttctttgt tttatgcatt actttaccat cttgccatag tcattagctt tgcacctatt 900
taggttacag cataaaatct aggaactcca ctttgaaggg atcatggtta ttcttaatta 960
gaaattgtca atttagcctt aagtatttta ttttttgaaa tgttttatga taatgtgaag 1020
taaaccatgc cattatttct cattttccc ttggttaaca aattaggata tacaaatctt 1080
caaattacct ttaaggcttg taaacattca aatcttttat ccgttagtca agttatttca 1140
taaacccaac attgcctctg aaatggcttt acacacaaag aggattttac cataaaatgc 1200
ttgtggtgtt tcattctctt ctgatttttt gtaggggaag ggggttggag agtaggcaga 1260
gtataaatta atttggatgg tgttggtttc aaagtagcat tccatgtaat tctgcagaaa 1320
gtatgataaa taagaaaatg ggccaggcat ggtggctcat gcca 1364

<210> 50

<211> 235
<212> DNA
<213> Homo sapiens

<220>
<221> unsure
<222> (35)
<223> a, c, g or t

<220>
<221> unsure
<222> (153)
<223> a, c, g or t

<400> 50
aatatttgtc acgctcctgc cagggccctg gcagnagcag aggcggtgtg tactgccatg 60
cattcctggt ctgttgggtg attgacacat acaagacgcc agcggtcctg agagtcaggt 120
gccttcctgg acccccttggt gagcggagga gcntcctacg cgttctggaa gaattcacat 180
gctgatttgt aggcggcctg gccaggtgct tcggagactc cagcagcatc gaagc 235

<210> 51
<211> 412
<212> DNA
<213> Homo sapiens

<220>
<221> unsure
<222> (388)
<223> a, c, g or t

<220>
<221> unsure
<222> (404)
<223> a, c, g or t

<400> 51
ctctgaaatg gtctccttgg atcatgggca gagatggtac gatgggatcc cacccgaggg 60
gtcccggccg gtgctcacgg ggctgggacc agctgctctt actctgtttt tctacctttc 120
tcagccactt ggaggaagag agaatttttgt tacctttttac aggcaagacc actgaagccc 180
tctggtcatc agcaggaatg caggggcgcc tatggcaggc cggactccag gtcaggcctt 240
ggggcagtga ggaagaaggt gcatgccagg agctgcctac gcgttctgga agaattcaca 300
tgctgatttg taggcggcct ggccaggtgc ttcggagact ccagcagcat cgaagctcag 360
atactctggg ggaagccagt caccattnca cgagggaagt tcanctaccc ca 412

<210> 52
<211> 503

<212> DNA
<213> Homo sapiens

<400> 52
acttcctctg ccacctgctg ctcatattgt ttgccctctt gggccatccc cattgccacc 60
acctctgcat gggctcccaa atcctgcctg gctgcttcct gtggtggctg gcaagcctag 120
aagagaacat tcatccagtc agtcaacata catttcctga gcaccagatc tgggccaggg 180
gcaggtgtta gaagatctgt caggcacagg cctggccccc agaggcacag tgttttgaag 240
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ttccacgaaa gttgtttttt agctggagaa agtgatcagt ttggattctt acacgtacta 420
gatgctcagc gaggccttga atggtggcac tggttctcaa agtgtgatcc tcaaaccaac 480
atggatttcc tgggaacttg tta 503

<210> 53
<211> 597
<212> DNA
<213> Homo sapiens

<400> 53
acttcctctg ccacctgctg ctcatattgt ttgccctctt gggccatccc cattgccacc 60
acctctgcat gggctcccaa atcctgcctg gctgcttcct gtggtggctg gcaagcctag 120
aagagaacat tcatccagtc agtcaacata catttcctga gcaccagatc tgggccaggg 180
gcaggtgtta gaagatctgt caggcacagg cctggccccc agaggcacag tgttttgaag 240
ggtaggtcaa ccatgagtgg tgggagggca gtggggccta tttattgggg gcacagagga 300
ggaaggctta tccttccaag gaggtgaaat gctagtaaga gttaagttga gtaaggttgt 360
ttccacgaaa gttgtttttt agctggagaa agtgatcagt ttggattctt acacgtacta 420
gatgctcagc gaggccttga atggtggcgc tggttctcga agtgtgagcc tcaaacctac 480
atggatttcc tgggaacttg ttagacatcc aaattcttag gctctatccc taatcctctg 540
catcaatact aagagatctc ttttataaaa ccccttcagg tgattatgac gccgcct 597

<210> 54
<211> 482
<212> DNA
<213> Homo sapiens

<400> 54
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ccccctttt ttctcctgag gatttaagat agaggcactt gccatgcatg attgcatttc 120
atcctcacga cagccctgca aagtagggaa ctgaagtttg gggcaagtca catagctagt 180
gtgatgtgga gtcaggattc caacttgcta tccttatctg ttgcttttta tattttctat 240
ccttatctga tgctcttcct caccactcat tcttttccca acatacctag ctctttcatg 300
cctccaagct cttccatgac ctatccctga agcagttata tccactgcag gatatgtctc 360
tgcaggaatc tgctgatcct ttatggccca gtttagctga agtcttactg ctgtgggtga 420
cttctctaac atgctctgca gaagaggcaa agcatttctc attttttggg tgcatgttct 480
ct 482

<210> 55
<211> 640
<212> DNA
<213> Homo sapiens

<400> 55
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taagaaccca ttctttggaa ttcaaattgt ggttctggca catattggct atgtgacttg 180
aacatgttac ttatcttctc atcctgaatt ttctcttctc agaatggagt tgtgagtgtt 240
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taaaggtgct gaaaaccggg ggatcctgga gtaaagacta ggcctggccc aggacagtga 360
tctcccgaaa cccctcctca ttgttttgtg aatgcgtagg cagtgatgca gtctgttagc 420
agggagatta taatcttgtt tggaaagtag aattacatcc acattaaaca gtcagagaac 480
tgtgaaggta gtttgaccac atccaataat aagatgtaga gaagagaaga cagctcaatg 540
aaggctttag ggaggaggtg aggcttgaaa gttaaatagg atttgggttt taggagaaag 600
gaataccagg agaccatatt aagaatgact taggccaggt 640

<210> 56
<211> 256
<212> DNA
<213> Homo sapiens

<400> 56
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ccatagcagt ataatttata atagtagaaa cattcagatt ctaataagag tggaaatgga 120
taaataaatc ttgttataat ttgtaacaat ggaaatatta acaataatga aaataaacaa 180
gccagacatg gtgcctcacc tgtaattcca gtgccttggg aggaccaagg tgggaagatt 240
gttcaagccc tggaga 256

<210> 57
<211> 305
<212> DNA
<213> Homo sapiens

<220>
<221> unsure
<222> (76)
<223> a, c, g or t

<220>
<221> unsure
<222> (79)..(80)
<223> a, c, g or t

<220>
<221> unsure
<222> (84)
<223> a, c, g or t

<220>
<221> unsure
<222> (89)
<223> a, c, g or t

<220>
<221> unsure
<222> (93)
<223> a, c, g or t

<220>
<221> unsure
<222> (97)
<223> a, c, g or t

<220>
<221> unsure
<222> (183)
<223> a, c, g or t

<220>
<221> unsure
<222> (279)
<223> a, c, g or t

<400> 57
ccgagcccgg cccatgtcag ttatttaatc ctcttgaaag tctgtgaggt tgctgttact 60
ctccccatta aaaaanaann aacnaaacng aanttcnttt ctcaccatcc tggaggctgg 120
gatgcccccc attttacaga tgaggccagc agggttgaaa gcaggtagag aggtgttggg 180
ganatgtcat gcccagggct gctgtctcct gagtgcacag cctttctgca aaacctcctt 240
gcctccccag caaagctgtt tcctccctgg ggaggggana gtactgattt ccgcctttgg 300
aggga 305

<210> 58
<211> 236
<212> DNA
<213> Homo sapiens

<220>
<221> unsure
<222> (14)

<223> a, c, g or t

<220>
<221> unsure
<222> (71)..(166)
<223> a, c, g or t

<400> 58
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gagaggatac nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 120
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnntttc tgccctctgg 180
ggccaattcc accactccct ggaaagtgat gtgatgaccc tgggcttgag tccaaa 236

<210> 59
<211> 506
<212> DNA
<213> Homo sapiens

<400> 59
gcaaccagct tgcaaagttc ttgaatattt aacaattagc ttctgctagt tgcgccacac 60
accaccttaa caggagccat tttgtaggag tggtggagat tggagtagat ccataagaaa 120
tgaaatgaga attggagaca gtgagtacag acatttttaa ggagttctag tataaagaaa 180
taaggtggga actgaactat gacatgtagt caagattttt ttttgtattt ttaaaataaa 240
aaatacagtg gcatgtttgt atgcagatga gaatgatcca attagagggg gaaatcaatg 300
aaaaaggaga aagcagggag aattgctggg gtgaagtccc tgggtgggaa agaggagggg 360
gttctaatgc atagggagag ggtagtttca tctccagtaa cagtgtagta atagcagaga 420
ataaaagtag ccctgtccaa ttaagtgtaa tgtgagccac aaagacaatg taaattttct 480
agtagccaca ttaaaaagta aaacac 506

<210> 60
<211> 2062
<212> DNA
<213> Homo sapiens

<400> 60
ttttttttt ttgagacagt ctggctctgt tgcccaggca acagagtgca ggggcatgat 60
ctccgctcac tgcagcctcc atctcctagg ttcaagcgat tctcctacct cagcctcccg 120
ggtagctggg actacaggca cctgccacca tgcctggcta attttgtatt tttagtagag 180
gcggggtttc atcattcttg gccagactag tctccaactc ctgacctcaa gtgatccact 240
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<210> 61
<211> 124
<212> DNA
<213> Homo sapiens

<400> 61
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tttattgggt gagtacagtc atccccctt atctgtgaag gactggttcc aggattccac 120
acag 124

<210> 62
<211> 541
<212> DNA
<213> Homo sapiens

<400> 62
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aaagctttaa attaaagcaa gtgattcttc aaagatttaa gtcctttacc tagcagtagt 180
ctgtgacaat tgctacagtg ttcccagtgg gaatatggta catttgagat gacaaagact 240
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gaggatcaca aactactaaa acagaacaat taactctgga aacctttga tgattaactt 480
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a 541

<210> 63
<211> 1040
<212> DNA
<213> Homo sapiens

<220>
<221> unsure
<222> (649)
<223> a, c, g or t

<220>
<221> unsure
<222> (184)
<223> a, c, g or t

<220>
<221> unsure
<222> (187)
<223> a, c, g or t

<220>
<221> unsure
<222> (189)
<223> a, c, g or t

<400> 63
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ctgttaagta gaggacacat tatggtttac tttttaacct tgcttcccca gttttccctt 180
tccttgcatt tgatagtaga atattttagg gcaggatcat atgtgggtgt tagattaagc 240
cattgggatg agaagggaga aatggcaaga gtattttcct tcattacttt attatttatt 300
ttccttttcc tgaggtaagg aaggggatat aaagaaatgg cctttatggt tcccacggtg 360
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acttctttaa agcttgagag cttgccctag aggtctttct tttgaaacca gtacaaaaaa 720
cagactttga ttttttttatc cttaaattat aatgatataa ttctactttt tttttacagt 780
gatctaaaca atctgaagaa cagaacttac acctttccta ataaaaactg caggttttgt 840
gttaaattta aacatatacc taaggtgaat gaatttagta gaattagcag gttattcaca 900

gtttcttatc agcactttca tcacatgggc tgaaatcctt ccacattaga cttacattaa 960
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<210> 64
<211> 311
<212> DNA
<213> Homo sapiens

<400> 64
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ttgattctgg cacttaactc ctgtgtttac taagtttgtt atagctggat ttttttttt 180
tttnggncnc ctagaagcag gagagggcag agataggggc agacttgact tagcaaggtc 240
ttaactgtta acatttttca gcccagagag ctgccttgct ctctaaaaca gttacttgtc 300
ctggttcact c 311

<210> 65
<211> 554
<212> DNA
<213> Homo sapiens

<400> 65
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tgattctggc acttaactcc tgtgtttact aagtttgtta tagctggatt ttttttttt 180
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ctttaactgt taacattttt cagcccagag agctgccttg ctctctaaaa cagttacttt 300
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gctgaagggg aagtggtcca ggcctggaac cgtctcaaga cagtgctgca ctggccccag 480
tccatagagg ggtcaactat gctggctgga ctggctgcct tgttcctggc ctaggactta 540
gcttcataac tatc 554

<210> 66
<211> 563
<212> DNA
<213> Homo sapiens

<400> 66
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atgccccccc ccaaatttga ataataaagg aattagccgt ttctgcaaga tgtgttgaac 180
tcatttatac aactatctgg gtttgctttg gaaatagctc tttgattgct ttatcaattt 240
cctttagagt tatcttttca ggtttgctac tttctcagga aacaatttgg ataatttata 300

ctttcaaga aaatcaacca ttccctttt ctgaatatat tgctatagag ttgtacatag 360
tatttcttat aatttttgta aaactcctaa tattgtcaat agtgcagttt tagtttctga 420
cgatatattt taccttccct ctcatcctca gatgagactg gctgtgctgt tttggcatac 480
atcttacatt tatatatgtt ataagcccca cactaccttg tttttgttag gcagattctt 540
aaaaaatatg aaattatata gga 563

<210> 67
<211> 658
<212> DNA
<213> Homo sapiens

<400> 67
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gatagagtga gtacatagag tacatagaag agtgagctct gaaagaactc tcacatggac 180
cccagaaaga ggagtactca acgcctgctg cacagaaggc atcagcagtt aagtactggc 240
tagaaaagca gagtccatca aaggagagga ccacagtggt agctgcctgg taagtaccac 300
tgtccccttt ccttcttttc tccctcccca gctcactgga ggagctaggc ctcaggaagc 360
tgggaaggaa tggggagaat tcacctcggt gacagttcac gccctccctc cagctccaac 420
agctggagtc aaaggaaagg aagagtgcac ctatctcctc cccattccaa gtccctttag 480
tgactagctg gacatgctct ggagaagagc aaaatgaggc tggaatttaa acaataccag 540
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aaagggattc aacagagcat agttgaaatc aatgatttaa aaaaacaaaa aaactggc 658

<210> 68
<211> 468
<212> DNA
<213> Homo sapiens

<220>
<221> unsure
<222> (6)
<223> a, c, g or t

<220>
<221> unsure
<222> (8)
<223> a, c, g or t

<220>
<221> unsure
<222> (74)
<223> a, c, g or t

<220>
<221> unsure

<222> (91)
<223> a, c, g or t

<220>
<221> unsure
<222> (228)
<223> a, c, g or t

<220>
<221> unsure
<222> (231)
<223> a, c, g or t

<220>
<221> unsure
<222> (236)
<223> a, c, g or t

<220>
<221> unsure
<222> (245)
<223> a, c, g or t

<220>
<221> unsure
<222> (313)
<223> a, c, g or t

<220>
<221> unsure
<222> (324)
<223> a, c, g or t

<220>
<221> unsure
<222> (406)
<223> a, c, g or t

<220>
<221> unsure
<222> (414)..(415)
<223> a, c, g or t

<220>
<221> unsure
<222> (420)..(421)
<223> a, c, g or t

<220>
<221> unsure
<222> (439)
<223> a, c, g or t

<400> 68
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tgagcataat tcanttgttt tattccacta nttttggggc ttgttatgga ggaatggtaa 120
gtgggatagt ggccatgaaa tccatgtcat ttgaggaggc acaaggtaag ttcagaaaat 180
tcagctgtat gagaaaatgc ctcttgacaa acactggctt aaaaaaantt ntacanttta 240
gtgtntttgt acactcactt caaaacttgc ttctctaaag agaagcttcc ctgaaccacc 300
caagcagaag ggngtacttc ctcnatcctg ggtgttacca ctgtattgag gataccctc 360
cattagtgcc cttgtcatgc tgttgcacat gttaactcac atgtgntctc ttcnnttctn 420
naatatcttg cctaaatcnc ttatatcggt aaaggcactg aggttctg 468

<210> 69
<211> 315
<212> DNA
<213> Homo sapiens

<220>
<221> unsure
<222> (306)..(307)
<223> a, c, g or t

<400> 69
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gaaggccaat ggactcctcc ccaccaatat catgaggggg gctatttgaa gaaccaaact 120
ttttttttcct agagagaaat gaagtattat tggaaggatc tatgaaacta ttagactaga 180
ccaaatttta actagataag aaatttagtt catttgattt tctggtagct ggcaagtgga 240
agggagaggt gaacaattaa attggctgta aacaaaagta aaacattatg tttttttcta 300
atactnnata gtgag 315

<210> 70
<211> 217
<212> DNA
<213> Homo sapiens

<220>
<221> unsure
<222> (36)
<223> a, c, g or t

<220>
<221> unsure
<222> (91)

<223> a, c, g or t

<220>
<221> unsure
<222> (164)..(165)
<223> a, c, g or t

<400> 70
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agaagctctg tgctcaattt ggcaaaatga ntttaacaat gagaattact catttgattt 120
gcattttggt ttctagcttg gggattataa atgcaatttt cagnnttttt ttgttttctt 180
tccaattttt ttgtatacca tgattttcta ttgactc 217

<210> 71
<211> 283
<212> DNA
<213> Homo sapiens

<400> 71
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taagtcaaca ttttggcaaa taaagaacag agatatttaa gcacatgatt caaataaaaa 120
ataacttgct tatttttgtt tgttgttaat gtcttattct gtttttacag tcaattatag 180
cctctgatct tctgctacct gggtggcatc ctgttttcct attttataac tgtatttata 240
tagtaacatt ttagtttttt gttttcttat atctatatta gat 283

<210> 72
<211> 296
<212> DNA
<213> Homo sapiens

<400> 72
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aatctgtatt aaaggtttac ttccttatga tgaagtaaat gttcacagtt ggaccttatg 120
gagtattaag attacatttt atttcttgta acatttttgt ttgctgtttt tttcattngc 180
ttcttatctg tgttcacata acaaattctg tgtcatagct gtttacacta tggtcagaca 240
gatcaggtga ttgctcagtt ccatttttct cttggagact tcttttaaaa cctgtg 296

<210> 73
<211> 715
<212> DNA
<213> Homo sapiens

<220>
<221> unsure
<222> (407)

<223> a, c, g or t

<220>
<221> unsure
<222> (411)
<223> a, c, g or t

<220>
<221> unsure
<222> (414)
<223> a, c, g or t

<220>
<221> unsure
<222> (421)
<223> a, c, g or t

<220>
<221> unsure
<222> (695)
<223> a, c, g or t

<220>
<221> unsure
<222> (698)
<223> a, c, g or t

<400> 73
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caatccttca aagagcatct ttctgtaaga tttattttgt ggacattcat tctccaggga 180
ggcttttgga ctcaaactcc tgagatttga gaaactctta gctgcatcct ggtgtcccag 240
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ctttgcccat ctgtctgctt acctattctg caggtctgga gctgctntta nctnagggtg 420
ntttgtgtg aattagaaaa aggggcctca tcaaccaggt gagtagggag atgcagccag 480
cgccaggacc tgtggctctg atgagcgagt agaggcaggg tttagctcca acttgccttt 540
tgtggtcact tgtctagtga aatgcacatt ctgggcagtg gtacatgtgc tcctgtctgg 600
gtgccatccc cgatacctct ttggggaccg ctttctattg gtggttcttc cttcttcaaa 660
ctctccctcc catgatctgg aatttcatat cttanaanaa aaggaaaaat gttag 715

<210> 74
<211> 330
<212> DNA
<213> Homo sapiens

<400> 74

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agttccagca gttgggaatg taatattctc ttatggataa agtagattaa aagtttaaat 180
taaaatacgc tgttaaatgt tgttactttc ctttgtgtac agtagtagta gtatactttg 240
annagttgag ttccataggc ttaacttttg tggtaaaact gaatactaac taagggacta 300
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<210> 75
<211> 249
<212> DNA
<213> Homo sapiens

<400> 75
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ttaaactttc aaacctgttt gggaagaagg cttggaacaa cagtgggttt gggtcttgtg 120
aagtaaatct tatttaaagg aaatagacaa aagcttaatc atgtttaatt tgtaacatta 180
taggtaagac tgttggttgc tgttgtaatg actctaaaaa agaatagaga atatttttt 240
ccttagaag 249

<210> 76
<211> 913
<212> DNA
<213> Homo sapiens

<400> 76
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<210> 77
<211> 565
<212> DNA

<213> Homo sapiens

<400> 77
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caaatgccag gtcaggcata agttgcactc tacccacatc accaagtgtc cccaggaaag 120
cagaagtgtg tcctcttccc tttccaggtc tcacttcctg ctgcacatgg gctagggctg 180
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<210> 78
<211> 725
<212> DNA
<213> Homo sapiens

<400> 78
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cagaagtgtg tcctcttccc tttccaggtc tcacttcctg ctgcacatgg gctagggctg 180
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accca 725

<210> 79
<211> 723
<212> DNA
<213> Homo sapiens

<400> 79
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tgctcagggt tcctgggaga ggccaacggg aagctgctgg ccctgcgcac ttgtcagcaa 180
gacccgaggc aggaacctgt tcaggtgctg agcagacaca cgagacaatg catttatttg 240
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acaaggaaag aagccagcat ttatgagggc cagctgcatg ctgagcacac acagctgcct 360

tgcaggatgg gcactgttat cccattgcag agatggagaa gccaaggtcc ccctggacag 420
tgaggttata tccaactgtc caccacctgg gggtaggtta aatattggga gagccataca 480
atggaatacc acgtagctac ttcaggggac acgacattgc taacacttcc ccataccttt 540
aaatatacat taggtgggga aaaaaaacag tatgaataat tccattattt taaaaatgtt 600
ctattgcata tatatttata tgttttctac tgtatatatg catatatgtg taaataaaag 660
gaggtagaaa aattaatctt aaaagaggta tactaaaatt taacagtgat ttttcatatt 720
tct 723

<210> 80
<211> 958
<212> DNA
<213> Homo sapiens

<400> 80
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ggggacacac ggagccgcag atgtgaataa ctgctagatc caagtgctcc gcttagatgc 180
tggccgcagc ctacaggcga gacgccacat gtcaggcccc gaaaggtggt gcagacacta 240
accaggcacc cagctcatct caactgctcc cggcggcttc tcagagcaga aaccatgctg 300
cccagactgg gagggagaag agcagccttg cagcgtctgc ttgggctcag gcctctgctc 360
agggttcctg ggagaggcca acgggaagct gctggccctg cgcacttgtc agcaagaccc 420
gaggcaggaa cctgttcagg tgctgagcag acacacgaga caatgcattt atttggggca 480
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gaaagaagcc agcatttatg agggccagct gcatgctgag cacacacagc tgccttgcag 600
gatgggcact gttatcccat tgcagagatg gagaagccaa ggtccccctg gacagtgagg 660
ttatatccaa ctgtccacca cctgggggta ggttaaatat tgggagagcc atacaatgga 720
ataccacgta gctacttcag gggacacgac attgctaaca cttccccata cctttaaata 780
tacattaggt ggggaaaaaa aacagtatga ataattccat tattttaaaa atgttctatt 840
gcatatatat ttatatgttt tctactgtat atatgcatat atgtgtaaat aaaaggaggt 900
agaaaaatta atcttaaaag aggtatacta aaatttaaca gtgatttttc atatttct 958

<210> 81
<211> 510
<212> DNA
<213> Homo sapiens

<400> 81
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tgagtgtcaa ctaagggatt cttgcaggaa tacctagttt cttccacatt attccagtcc 180
tgggtaattt ccaatgctgt gtggtcaaca acctctccag gccaggtctt ctgctttgaa 240
ctttagaata gcaaattaaa aggagatggc ttgaaaaata ttatttttat aaaacaatgc 300
ccagaggaat tgagtgtgct aaagacacca gaaaaaaagg attccttaaa gtaacagcaa 360
atgatcaatt tttttaacca ttcttttatt ctttcaccaa atgtatattg aatgctaaca 420
ctattagatg ctagagtacc aaagatgtgt acagtatcat tgccttaaaa atgatctatg 480
ttaaggggca agagaagaga aacatataat 510

<210> 82
<211> 519
<212> DNA
<213> Homo sapiens

<400> 82
ataataatca tacctaccta ttcatagtat cgttgtgtgg atttactaaa ataatgcatg 60
taaagcatat aggatagagt tgagcacata gtacacatga tgtgttagtt gttatcaact 120
tttcattatt gagtgtcaac taagggattc ttgcaggaat acctagtttc ttccacatta 180
ttccagtcct gggtaatttc caatgctgtg tggtcaacaa cctctccagg ccaggtcttc 240
tgctttgaac tttagaatag caaattaaaa ggagatggct tgaaaaatat tatttttata 300
aaacaatgcc cagaggaatt gagtgtgcta aagacaccag aaaaaaagga ttccttaaag 360
taacagcaaa tgatcaattt ttttaaccat tcttttattc tttcaccaaa tgtatattga 420
atgctaacac tattagatgc tagagtacca aagatgtgta cagtatcatt gccttaaaaa 480
tgatctatgt taaggggcaa gagaagagaa acatataat 519

<210> 83
<211> 384
<212> DNA
<213> Homo sapiens

<220>
<221> unsure
<222> (83)
<223> a, c, g or t

<400> 83
ataataatca tacctaccta ttcatagtat cgttgtgtgg atttactaaa ataatgcatg 60
taaagcatac aggatagagt tgagcacata gtacacatga tgtgttagtt gttatcaact 120
tttcattatt gagtgtcaac taagggattc ttgcaggaat acctagtttc ttccacatta 180
ttccagtcct gggtaatttc caatgctgtg tggtcaacaa cctctccagg ccaggtcttc 240
tgctttgaac tttagaatag caaattaaaa ggagatggct tgaaaaatat tatttttata 300
aaacaatgcc cagaggaatt gagtgtgcta aagacaccag aaaaaaaggn ttccttaaag 360
taacagcaaa tggttcaatt tttt 384

<210> 84
<211> 519
<212> DNA
<213> Homo sapiens

<400> 84
ataataatca tacctaccta ttcatagtat cgttgtgtgg atttactaaa ataatgcatg 60
taaagcatat aggatagagt tgagcacata gtacacatga tgtgttagtt gttatcaact 120
tttcattatt gagtgtcaac taagggattc ttgcaggaat acctagtttc ttccacatta 180

ttccagtcct gggtaatttc caatgctgtg tggtcaacaa cctctccagg ccaggtcttc 240
tgctttgaac tttagaatag caaattaaaa ggagatggct tgaaaaatat tatttttata 300
aaacaatgcc cagaggaatt gagtgtgcta aagacaccag aaaaaaagga ttccttaaag 360
taacagcaaa tgatcaattt ttttaaccat tcttttattc tttcaccaaa tgtatattga 420
atgctaacac tattagatgc tagagtacca aagatgtgta cagtatcatt gccttaaaaa 480
tgatctatgt taaggggcaa gagaagagaa acatataat 519

<210> 85
<211> 1286
<212> DNA
<213> Homo sapiens

<400> 85
gcagtgcact ggaactgaag gcaaggacaa gattgattgg aaatgtcagc ctgtgctcac 60
ttttgcagct gagctattca aacttttgga gatgcagatt gcagcctgtg ctggctttat 120
tcatgcaacc attggctgtt cacagtgtca cacagtgata tgaaatgatg gcaaatttag 180
aaaatctggg aaatgaaaaa tggtaaaggt ctgtcctggg catcttgcat catgaggtag 240
ggctgttctg gaatccccaa gccctttcca ccaaaggagt ttagaattca gagtcagaag 300
atagggcctg gagtcctggt tcagccattt actctctgag caacttggga gtttcaggcg 360
gagggaatgg cacatgcaag ggcctgtcag tttgaaggag catggtacgt tacaggaatg 420
gtagatagag catacatata gggcaggctg agaggctgga agggcttggc ctttgaaatg 480
ccaggctaag gaattttgga ctttccctaa aggaaagcca tgggaaatgg aaattttaag 540
ggctggggaa aggggaatta gggatcagaa ttcttaatgt ttaaatattg ctcaccccaa 600
attgcagcgt aagaaggaat gggatagaaa gggaatgtta tggattcaga gagatgggct 660
tagaaaccct aagattcatg gtagcagagt cttcgagcag gggcttgctg gagcaaagca 720
ggtccccgtg gagcaggttt gtcttaaact cttgttgtct ttctgaatgg gtatcaaaga 780
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cgcacgcctg gctaacttca tagaggccca ggccatgggc attgccagag gctgagctag 900
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ttcaggaaag atctgtctca cccagaacta ggagaagcta gaggacctgg gtcctgccca 1140
ctggaaggca aaggaatgca catgttatta ggaccttgtt ccaacagcag tggctgtcat 1200
ttgttgtgca cctactatgt gtatgcacaa ggctaaatac tttctgtacg tttctcattt 1260
aatcctcaca gcagctcttc aacata 1286

<210> 86
<211> 400
<212> DNA
<213> Homo sapiens

<400> 86
gaaaaacatg atattttcat ttaagggagg ggtaaaacca agttaaatta aaacagaaaa 60
gttttaaaag ctgcagtaat actaagtcac agtgtagaaa aattgcaacc agaaatgtgc 120
taacactatg tgtttggaaa tcattatatc taagcaggca tgctttattg tgaatctttt 180
tacttattag tctttcagag aacagtgttt tcatgagtac taactctttg gctttgaaaa 240

acatttcttt tttattatga actcattcag aaagaattgt tacgtacgtt taactgtgta 300
aatcctattc cttttcttcc atatttcttt ctagaagttt tagagtatgt ttcataatcc 360
tcttattctg ttctaacagc aataaaatta aggaaaaact 400

<210> 87
<211> 396
<212> DNA
<213> Homo sapiens

<220>
<221> unsure
<222> (162)..(246)
<223> a, c, g or t

<400> 87
cgcggacgcg tgggtggaaa ttatctctac agagaacctt aggaatgata ctagttctgt 60
cttacaacta gcataaacag gggcagatca ccaagtcggc cccaaagggc ctgtggcttt 120
ggctctggct ctggctcttc tctctaaacc aatgctactc annnnnnnnn nnnnnnnnnn 180
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 240
nnnnnnacaa aagtctgggt ccctaccatt ataattttaa aaccattgca tttacagaat 300
tatcccactt gggcttttta tggcagtata ttcatacctt ggtataccac acacagcaat 360
ggaaaagaaa ctacagacta cacagaacat ggatga 396

<210> 88
<211> 288
<212> DNA
<213> Homo sapiens

<220>
<221> unsure
<222> (251)
<223> a, c, g or t

<220>
<221> unsure
<222> (254)
<223> a, c, g or t

<220>
<221> unsure
<222> (266)
<223> a, c, g or t

<220>
<221> unsure
<222> (269)

<223> a, c, g or t

<220>
<221> unsure
<222> (273)..(274)
<223> a, c, g or t

<400> 88
gttctgaggc actctgtgag acaaaaataa agatggcctc caaggcctcc attctaagca 60
tggagtctct gggccatcag gagacctctt aaaattgcag gtgtcattgt aggtgtaact 120
attaggtatt actatagtat tctatagtac taataccaat actataatat tatacttata 180
ataatatata gttttacttt atgtattatc atatataatt ttaaattata tattataata 240
tagtattgta nttntataag catatntant atnntcntat tatgtgta 288

<210> 89
<211> 125
<212> DNA
<213> Homo sapiens

<400> 89
gacaatttat aattcaaagg gaagcagaac ataaagattt ggacatttct tggtccagcc 60
atgtaaagaa tgaaaaagat ttggacaatt ttcagtccag ccatgtaaag gntaaaaaag 120
tatgt 125

<210> 90
<211> 314
<212> DNA
<213> Homo sapiens

<220>
<221> unsure
<222> (286)
<223> a, c, g or t

<400> 90
aagagcacaa ggtaatggta tctctagaat cttccagaag tgaagatttt agcttataat 60
gcaccagttt atcagtgttg ggtgaggcct atagtcggcg ttggtaccat gttattcaca 120
ggtgtctctc atcatgagga ttatggttgg ttttgccttt ggagacctgg tctacctgct 180
tctgatagag gcttaactgg gttcagtgtc aagaggttca ctgtggtcca taaaagcaaa 240
cagacaagct ctggcgagat agaagtgcta ctacttggca cattgntcct ttgtgaagta 300
aaaagtattt gttg 314

<210> 91
<211> 233
<212> DNA

<213> Homo sapiens

<220>
<221> unsure
<222> (5)
<223> a, c, g or t

<220>
<221> unsure
<222> (22)
<223> a, c, g or t

<400> 91
gccangggtc cggccacggg tncggaaagt ttgcacatcg ccatgtagct atgtgtgtag 60
agtgtcagcc tccatacaat gttaactgtt tccaagtgat agtggtgatg cccaacctgc 120
agtttagctg tgagatttgg gccagtaatt gatgttacag cccatttagg gacgacttta 180
attaacatca cctgtgagcc atgaatagcg caaacagcaa gtcaagatca tca 233

<210> 92
<211> 456
<212> DNA
<213> Homo sapiens

<400> 92
aattatttga ctttacaact ttatgatatg tttgatgcat ttttagtact ttgtgtattt 60
ttcattgtaa cattttaaat gactgttaag gagttagagt gaccatccac agcacacatg 120
gaaaaatgct gcttagaagc atgggacatt aataagtgaa ctgatattta tatcttagaa 180
tttgtttact tttttgagaa tctcattaga aacctatgct gggatataaa attctttagg 240
cagatttcac taagtagagc caattgtcct ttgtttcttt tgctgaaccc agtattgcat 300
aaaactgcca atgcacaacc aagctgtagg ctgatggaaa acaacatcag ccaagagatt 360
cacctagaag ccagctaacg gagctgggtt ccctttttggt gtgaaggcat cagaagacca 420
tcagctctag aaataaaact gaaaaaaaaa aacaac 456

<210> 93
<211> 374
<212> DNA
<213> Homo sapiens

<220>
<221> unsure
<222> (243)
<223> a, c, g or t

<220>
<221> unsure
<222> (329)

<223> a, c, g or t

<400> 93
catgccgccc ggacccccag cccaggacat catggtgccc agagagcgtg agccccaagg 60
gcattggcag gagctgccga ttccatctcc ctgggtgggt tccaggtggc acaggaaggg 120
tgggccggga ggcttggtga cctgggagct gcccttggag gctatttcca ggggcctcag 180
ggtgggccgt gggggatttg gagtcttctg cctgtgcagg gtcaggcagg gtcggttggg 240
ggntcggagg tagatgccat ggtatgctgg gcagcaagtg gctcaggaag cctctgggtg 300
tgagtcctcg ggggtcacca aggcaggang gggcagggat gtgcagggtc cgccctcgtc 360
tccccacgtc tggc 374

<210> 94
<211> 672
<212> DNA
<213> Homo sapiens

<400> 94
gcaccgtcac ctgcctacat accacacatc cagtgctgac tcccaggcag accgtggtgt 60
tgaccccact ggatgtgtgg tatgtaggca cggggtggca ccgtcacctg cccctcacag 120
acacactggc ggcctgtgca caaacccact cacgcacaca gcactcagta agccgggact 180
gacccactca gacacgcaca caggcgcaca tcacacacag gctcagcccc ccaaacccag 240
acccaggagc tggagcgtac gggtccacgt ggctagaaaa tgcaggttgg agcggcccca 300
tgccgcccgg acccccagcc caggacatca tggtgcccag agagcgtgag ccccaagggc 360
attggcagga gctgccgatt ccatctccct gggtgggttc caggtggcac aggaagggtg 420
ggccgggagg cttggtgacc tgggagctgc ccttggaggc tatttccagg ggcctcaggg 480
tgggccgtgg gggatttgga gtcttctgcc tgtgcagggt caggcagggt cggttggggg 540
ctcggaggta gatgccatgg tatgctgggc agcaagtggc tcaggaagcc tctgggtgtg 600
agtcctcggg ggtcaccaag gcaggagggg gcagggatgt gcagggtccg ccctcgtctc 660
cccacgtctg gc 672

<210> 95
<211> 577
<212> DNA
<213> Homo sapiens

<220>
<221> unsure
<222> (574)
<223> a, c, g or t

<400> 95
ccttaattgg aaactgcttt aattatccaa cactaaaaaa atgtcaaggg caagaggtgg 60
tttgaactat ggactggtgt tagatgatgt attttttta ttttgttaag tataataata 120
gttgttatgg ttaggtggga aaagatcctt aaattttaga gctgcatgct ggagtattta 180
gaagtgaaca gtcattgtat ttgttattta aaatactaca cgaataaaca agatgaagca 240
aaattgctca gtctagatat gggtctatga gtgtttcatc tttctacttt tttctccatg 300

tttgaaatcc ttggtaaaat aaagtcaaag tggaggaagg aggagcttga gattgaaaaa 360
tcagtttgag aagcagccac cttgactggc ttcactctaa tagcctggac gctgcctcca 420
cactccaggt gcactgctca gcattctcca agaagtcatt aagggcagac cctacgtgtt 480
aaatttcaat cagtttcact gagcaaatat gctgttaaat agagactgct gtgtgctgtg 540
tcagtgtgcc ttatgggcaa tgtgatggtg ctanaaa 577

<210> 96
<211> 438
<212> DNA
<213> Homo sapiens

<400> 96
gcggtcctca tctctaccat ggactaccag agggaaggca gcacctctca tcacccaggg 60
ggatggcctc cagtcagctg gggtatgtat gcagctgtgt ggcagcaaat atgtccatgc 120
ctgcaagcca ctcagccctc agtcacacgg tgatgggcac taatatccaa gaggagcaga 180
agtcaaggcc atgggtcctt ttctcccctt gccagagatg cagccccaca gcccctggtg 240
atcttggctg ggagaaaaat cagagtttga catctcatcc cactgccttc tgctttctga 300
ccttactgag gtcagggtca tcaaggcctg ggggactggg acagggttaa ggggtgtcct 360
ttctccatcc gtcttccaac cccgtggaga ctcagcatgc ctaggaaggt ggaagggctt 420
tctgcgggca caacatct 438

<210> 97
<211> 545
<212> DNA
<213> Homo sapiens

<400> 97
gcggtcctca tctctaccat ggactaccag agggaaggca gcacctctca tcacccaggg 60
ggatggcctc cagtcagctg gggtatgtat gcagctgtgt ggcagcaaat atgtccatgc 120
ctgcaagcca ctcagccctc agtcacacgg tgatgggcac taatatccaa gaggagcaga 180
agtcaaggcc atgggtcctt ttctcccctt gccagagatg cagccccaca gcccctggtg 240
atcttggctg ggagaaaaat cagagtttga catctcatcc cactgccttc tgctttctga 300
ccttactgag gtcagggtca tcaaggcctg ggggactggg acagggttaa ggggtgtcct 360
ttctccatcc gtcttccaac cccgtggaga ctcagcatgc ctaggaaggt ggaagggctt 420
cctgcgggca caccatctcc cgcctccctg tgcctgtcct ctgctgggtc ctgggttctc 480
cagtgattat agcccttgct gcttccccca cagtggggaa cacagagccc tgcccagagg 540
cttga 545

<210> 98
<211> 142
<212> DNA
<213> Homo sapiens

<400> 98
aatttcctgg atttgtttac tgtacctgtg attcagctgg agatataatt cccaaattca 60

tatttttagc atgctggtgg tcaatgtagg cagctacctt atgggtatgt ataaccattt 120
cccctcttga aatcagcctc tc 142

<210> 99
<211> 864
<212> DNA
<213> Homo sapiens

<220>
<221> unsure
<222> (386)..(522)
<223> a, c, g or t

<400> 99
agcgggggggg agagtataaa tgattagcag gattctggct aaaattggtc ctacagggtc 60
ttgaataagc ttatttctta tttcttataa gactgtaggg tatactcttt tcagtcttat 120
tactaattct ttatcagtaa tatgtattca tctttactgt cttgtgtctt tttgctgatt 180
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ccaaatttcc tggatttgtt tactgtacct gtgattcagc tggagatata attcccaaat 300
tcatattttt agcatgctgg tggtcaatgt aggcagctac cttatgggta tgtataacca 360
tttcccctct tgaaatcagc ctctcnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 420
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 480
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nntgaaatca gctttaattg 540
tcccccaggt aaataaacac ctggtgaaag tcacctttgg aaaattaatg cttttgaaaa 600
taatccatga gtctaagtat gactttcaaa tcaccttcac cgtgtgtctg ggaacatttc 660
aggttgattt cctacatcac atcactcctc ttctgcttat tgtattccca cttactagac 720
gtcaggtgtt ggtttattag gagacattgc tgtgcatgtc acacagccag ttggcaccac 780
atttttggct ccttctgttg aatctctttc tagtttggct ggcaagttac aatctgttca 840
ttgagaaggg agcgtgtgca tatt 864

<210> 100
<211> 735
<212> DNA
<213> Homo sapiens

<220>
<221> unsure
<222> (309)
<223> a, c, g or t

<220>
<221> unsure
<222> (409)
<223> a, c, g or t

<220>

<221> unsure
<222> (698)
<223> a, c, g or t

<400> 100
ctccatctca aaaaaataat aataatataa aataaattaa tagatacttc ctaataagat 60
tgtcactttc taggaaatgt tcttttcatg attcctcttg tactctgtag gttctttgtg 120
aagcaggagg cagaatctgt gttttgattt tactttcacc tctgtgccag tagttttcct 180
ccctgttgta tctcctttat tttatatttc tttctcttaa catttgttat tgcctctggt 240
ttttaatttt ttatgtgtag taggaaagaa agaaggaata ttgattacat atgtgatttt 300
tttctttant actacacgtt ttttacttgc ctagccctta tcttttcttc ttcgctgttg 360
tagaatattt ttaatgtttt actcaatgag ttgggaattt gaagaagtna aagcaaggac 420
tccatatact ctcattctac tggggaggtc ctgcttgttg aatttttagg tatttcaaga 480
tgttccagtc aactgacaag gacttctcac agtgtcagaa ctgtagtgat gatgagacta 540
atgcaactaa caaatagttc tggtatgtaa ataaccactt ttgcatgttt acttcaccag 600
aaaattctct ggagtatagc agtatcctgt attcttagtt agaaatttgg caaaccactt 660
ggatgctttc aaaggagatt ttgagttaat gatgctantc aaaaataaga atatatttta 720
atcagatgtg aaatt 735

<210> 101
<211> 415
<212> DNA
<213> Homo sapiens

<400> 101
tagttctaga tttcttcaga gggggttcat agaggaattg acttaaaagt agagccttaa 60
aggaaagaag ctacatcatg gaatgacgtg gaaaagtatt tttcttttta aatcagttac 120
ataatttggg ttttctcaag ttttgccatt ttaatcagca gaacttagat taattaattt 180
gtgagatgct tatctttgcc tattaatttc ctctattgat atttttactt gctatcaatt 240
gcgattgctt tttcatatct gtcttctttt gtaaagtgat gactttagtc agaagtgtgc 300
tggagcagtt tgcagagcct tgcaaaattg atggtgccta tctatttcca gctctatgtt 360
catcaatgcc agatcggcag actgaaatca gccgtgataa aaatgtttac actat 415

<210> 102
<211> 146
<212> DNA
<213> Homo sapiens

<400> 102
atccttttgc catcttgctc tttatcagcc ctgtgggttg aagcttcttc ttcagtcctg 60
atgatcacac atgcctttta cctatgaata gagatgctgc ctttgactct gtcctagttc 120
ttgactctgc ctttggattt tttttt 146

<210> 103
<211> 743

<212> DNA
<213> Homo sapiens

<220>
<221> unsure
<222> (543)
<223> a, c, g or t

<220>
<221> unsure
<222> (725)
<223> a, c, g or t

<400> 103
atccttttgc catcttgctc tttatcagcc ctgtgggttg aagcttcttc ttcagctcct 60
gatgatcaca catgcctttt acctatgaat agagatgctg cctttgactc tgtcctagtt 120
cttgactctg cctttggatt ttttttttct tgagtctacc taacgtgaat tgcatttgat 180
agtttggata ttccagaaaa acttcctcac atattgtctc ctaatttatt ttaagtatta 240
atagttatct ttgaaaaata tcttctacaa ttttaataag ataagggaaa tcatgattta 300
aaagagtgtt ttttaattgg aatcttgaag gaagagccta acacctttc caacatggaa 360
ttttaagctc tcttgatccc taatttatta ccactggcca caagaggtga catttcctac 420
aaagtttagg gaatttatgg caatactaat aagaaccaat ccttgacttg ccacccacgt 480
gcagttcaaa gctgttcttc tggagaacat ggagtctgtg gtgtcttaga ctactgactt 540
tgntgttatt catcctaccc acccttcatt tttctccatg agtaactgct ttcctcttag 600
tcctagtaac ccagaggcac agatgtccaa agacaacagt cagatggaaa tgtaaatcac 660
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<210> 104
<211> 448
<212> DNA
<213> Homo sapiens

<220>
<221> unsure
<222> (6)
<223> a, c, g or t

<400> 104
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ttcagaataa tgacactgaa ttgttcaggt tcgaggtggc agcggaggct agaactgacc 180
tgcttggaat ctgctctctc tcgatgtccc tcctgacatg cgccctgctt ccgttcctct 240
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aacaaaggga aaatcagcat gactagcccc attctcttca ctcttaatcc cagagatagt 360
gaatgccccc ctcctaccac atctttgtgc caggtcacct aaaagttgtt tggtggagtc 420
aatgtgggtg catgaggtaa gtcaacag 448

<210> 105
<211> 491
<212> DNA
<213> Homo sapiens

<220>
<221> unsure
<222> (193)
<223> a, c, g or t

<400> 105
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gctcactcct gcagctggat ggaaaggcct tcctggaaga agggggtccg ggcaatgcat 360
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tcactggctc c 491

<210> 106
<211> 594
<212> DNA
<213> Homo sapiens

<400> 106
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caggagcttg aagcacccac tggaatattt tcatggagga ctaaaatggc tgggtctcta 180
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ctcactggct ccaccagcca tctcctccca ccccacccat cctctgtgtg gtccacacac 540
aggtctgatc ttgtcacttg ccagtgcacg aacactaagg gacctctgtt tgtg 594

<210> 107
<211> 467
<212> DNA
<213> Homo sapiens

<220>

<221> unsure
<222> (428)
<223> a, c, g or t

<220>
<221> unsure
<222> (446)
<223> a, c, g or t

<400> 107
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gcaccgaata aacctagtct tcagagactc aaaagttaaa atattatcct atatcctgtt 180
aaattggcaa aaccaaaaat gattaacata cctgacgctg caaagtcaca gtggcctggt 240
gcatttggac gttgttggtg atgttgtgta aaagactgca tcttctcgga acagcaattt 300
ggcatgatta tcaagatcta caaaaatgtt catgcccttg cagtcctctg taatactagt 360
tatccctagg gaactgaaat tatgggtaag gatattcagt cccacattta tttaatttcc 420
gaaaccanta gaatagcttc agaagntcaa ccaagaggaa aatggtg 467

<210> 108
<211> 228
<212> DNA
<213> Homo sapiens

<400> 108
cttgaaatga agacatagaa tgattgaata gtatctagca attttctgtt gcaaaaaaag 60
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gaaatgtgtt cagagaggag aagtaggcag ggacctgatt acatagggct ttgtaaatca 180
gaatgaaaaa agttagaatc aggctggcac agtggctcac acctgtaa 228

<210> 109
<211> 1324
<212> DNA
<213> Homo sapiens

<220>
<221> unsure
<222> (312)
<223> a, c, g or t

<220>
<221> unsure
<222> (385)
<223> a, c, g or t

<220>

<221> unsure
<222> (419)
<223> a, c, g or t

<220>
<221> unsure
<222> (506)
<223> a, c, g or t

<220>
<221> unsure
<222> (517)..(518)
<223> a, c, g or t

<400> 109
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cctaggggtt tgcattggtt tttttttgga aaaacccttg gaaaccggtt ggttattgtt 180
agggaatgcc ctttattgat tccggcccca tttacccgga taatttaatt tatttatttt 240
taacaaggtc tttttttccg aggtgaggca tggggtattc agccatgaat ttgtgcccca 300
ggtcaagtat anttgatttt agaaaacggg tttcctttgt tgccaggctg tctcactcct 360
ggctcaaaga tccaccctct cggcncacaa agttctggat ttcaggtgta gttacgtgnc 420
gggctatact gatttaaaaa tcctttacca gagttgtgag tcagagtgag atagtgcact 480
tgttggagtt attcaatgta cattanttta tctctcnntg atgtagaaag taccaatcag 540
catgacttgg tgactactac aaagagagga aattctaatc atttaatgtt tctgatttaa 600
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aaaa 1324

<210> 110
<211> 225
<212> DNA
<213> Homo sapiens

<400> 110
gcctcgcctg gcatccccca gctgtagatg ggggcagagc aagacttgct gccaacctgc 60
ctggctctgt ggtccctgct ccctctcccg ttctgctggc gtcaccaccc ctccttcaga 120

actctctatg gaattgcatt ctagtctctc ctgcttctgc ttatgcatgt gaaagccaga 180
tgccccttct ctctctctct ttttttttt ttgatacgga gtttt 225

<210> 111
<211> 1435
<212> DNA
<213> Homo sapiens

<400> 111
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tgcacactga ggaactgcat gcacagacac tcaggacccg cctgcctccc ccagctcctc 180
agccgggcct gtgtcccacc ccagtccacc gttgtgtcca tgctgtgctt tctgtggtca 240
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gcagccctga cagattcctg agtctgcctt ttcccagaat tctgacctct ccaggggctc 540
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tgaggcaggt ggatgattgc agggatgacc caaggcccac gctcccagga ctgccaccat 660
tccaatacca aaagagcctt taaaaagcct tcactcagga gctcctggtc cagaacttgg 720
catggacttg gaggccagta aatactaagt tgaaatggac aggagtcaac cccaaacaaa 780
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cctggggttt tcttcagatc cttacataat cggaacttct gacagaatgc tggctcctct 960
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cctccttcag aactctctat ggaattgcat tctagtctct cctgcttctg cttatgcatg 1380
tgaaagccag atgccccttc tctctctctc ttttttttttt tttgatacgg agttt 1435

<210> 112
<211> 672
<212> DNA
<213> Homo sapiens

<400> 112
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gaaactatcc atgcaaagga acctacattt aattgaatca gactgtggaa taatttacac 120
caccaggcat tgttgacaac aatagaacaa tcatcaggca attaatagag actaattact 180
aacttccagt gaagtataga aatgttactc ctattttgct ctattacatc ttttaacttt 240
ttgtggtact aatgttataa atgttatatc tgtatatatt acaaatatag caatagattg 300
ttatgattac tatgttacat aattttatgt ctgctaagga agttgagaga agaagagcaa 360

atgtacattt atatgttttg ttatatgact ttccttttat catttctggg ttgctcttca 420
tctattccct tggattcctt tgttctgcta ttgctaaatg tattacattt ttatatggta 480
taggctgaac aacactatta tataaaagtt gttttataca attttttttaa atacattaat 540
agaaaaaaag acattttctc ataatcacaa tgcaatagat ctaacaaaat taacagtaat 600
tccccaatat catccagccc ttagtcttta aatgcatttc cagaattgct aagaaaattt 660
tagctaaagc ca 672

<210> 113
<211> 523
<212> DNA
<213> Homo sapiens

<400> 113
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attattttta gaaatacaag aatttccaaa acacagatct tctggcctgt cacttgtggc 120
ctatactctt tgaaagtgct caaaataata aaggtcaggt tattgataat gattttagat 180
aatagaattt aaaaataatt ctgtaatttt atattgaaac attaagcctt agaagttgat 240
agaagtattg tgcattacag aagtaccaag tagttaaaag ttgctcttaa tgatttaaaa 300
aataagagca gaagatcgtt tagccataca tcatgtagaa agaacattgt gttggcagca 360
tgatctgaat ttgaatccat attctgcccc ttagtcaact gttggcaatc actttgagcc 420
aactttgctt actacaaaat gataattgca gtactcacat ttcaagattg ttgtatgcaa 480
gttcctagca aaggacctag catgtcgtag aaattcagca aat 523

<210> 114
<211> 840
<212> DNA
<213> Homo sapiens

<400> 114
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attttcagca tatgaaactt ccctgatttt tattttctat atgtaagtct ccctaccacg 180
tttctttgga gattttagga atttttcctt tgttcttcgg tggccataca tcttgtttgg 240
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atcccagagg aagaatgctc ttccatagct gtacctctgg aatgttttgg ttgtacagta 360
aaattgaaca tttggttatt atttttagaa atacaagaat ttccaaaaca cagatcttct 420
ggcctgtcac ttgtggccta tactctttga aagtgctcaa aataataaag gtcaggttat 480
tgataatgat tttagataat agaatttaaa aataattctg taattttata ttgaaacatt 540
aagccttaga agttgataga agtattgtgc attacagaag taccaagtag ttaaaagttg 600
ctcttaatga tttaaaaaat aagagcagaa gatcgtttag ccatacatca tgtagaaaga 660
acattgtgtt ggcagcatga tctgaatttg aatccatatt ctgcccctta gtcaactgtt 720
ggcaatcact ttgagccaac tttgcttact acaaaatgat aattgcagta ctcacatttc 780
aagattgttg tatgcaagtt cctagcaaag gacctagcat gtcgtagaaa ttcagcaaat 840

<210> 115

<211> 158
<212> DNA
<213> Homo sapiens

<400> 115
agcctctgaa acagctggaa ttacaggcaa gcactgccgt gccctgctaa tgagaaattg 60
taattctcat agaggtcctc ccagaggagt agaagaaggt tgaaaggcac ttctgtattt 120
agtcttctca caattaaggc tgggcccagt ggctcaca 158

<210> 116
<211> 528
<212> DNA
<213> Homo sapiens

<220>
<221> unsure
<222> (510)
<223> a, c, g or t

<400> 116
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agataaatgt aaaattacac ctgtgagtag tgctgtgaag gagaggttga ggatggtaag 120
ggtatatgat aactgaagga atttgtctat tttagaaatt ctggaaaggc ttccctgaaa 180
gaattaaaga tgtgtaggag ttaagtaggt taaagagaac agaaagatga gttcaggaat 240
agtggcgtaa agcaaccatt gattgtgccc gtagattctg tggggatggg attcagacag 300
cagtttatct ctgctccatg atactgagaa cctcagctgg aagactaagt ctggggatga 360
cttgatgact gtaggctgga ctcatgtgaa ggctcctcct ctggccttca ggggctggtt 420
gtccaatgag accttagtga gtctattgga caaaacaacc atacgggccc tctgcattta 480
gcctggggtc cctcaggaca tggtgtccan gttgcaggag gaagtgtc 528

<210> 117
<211> 511
<212> DNA
<213> Homo sapiens

<400> 117
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agagaatcca ggggcctgct gtgtgctggt gacatctctg ggcaaggtgt aagccatttc 120
agggtttgaa gcagaggcat gacatgagtg tgggctcctc tggagcatag gttgtatcca 180
tagcttagtc atccccccag taccttgata atttcttata cgtattaggt cctcaataaa 240
tgtctgttta attgtgctgt actattaatg ccagaaaaag gcaaatgtct caaagggatc 300
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gataacttcc tcctaatagt ggtttaaata tcagtactat aagacttcat tctatttgga 420
actgaataca aatgttggtt actaatgtgt aaatgtgtaa cgtatgactg atctctctac 480
agagtacggg aatgtcaggt gcatttttag c 511

<210> 118
<211> 1382
<212> DNA
<213> Homo sapiens

<220>
<221> unsure
<222> (1324)
<223> a, c, g or t

<400> 118
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agagaatcca ggggcctgct gtgtgctggt gacatctctg ggcaaggtgt aagccatttc 120
agggtttgaa gcagaggcat gacatgagtg tgggctcctc tggagcatag gttgtatcca 180
tagcttagtc atccccccag taccttgata atttcttata cgtattaggt cctcaataaa 240
tgtctgttta attgtgctgt actattaatg ccagaaaaag gcaaatgtct caaagggatc 300
aggggacaca aatttgactc gattcaacct atttcctagt ttgtgcacaa ttttttaatg 360
gataacttcc tcctaatagt ggtttaaata tcagtactat aagacttcat tctatttgga 420
actgaataca aatgttggtt actaatgtgt aaatgtgtaa cgtatgactg atctctctac 480
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cctccttacc ttgatgacta tggggagacc gaccagggac tcagacgggg aaatccttta 600
catttatgca aagagcgatt caagaagatt cagaagctct ggcaccaaca cagtgtcaca 660
gaggaaattg gacatgcaca ggaagccaat cagacactgg ttggcattga ctggcaacat 720
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cacacatgca agaagaagcc cgtggggaga aggtggattc ctggtgtgct ggctggtttt 1320
tcanggctgt tagaggtttt ttttttcttt ttttttttta aggcaagact tttggctttg 1380
ag 1382

<210> 119
<211> 92
<212> DNA
<213> Homo sapiens

<400> 119
cttctaataa atgcaaatta ctttgtggca aatactgaga agaggtctgt ttacaagcta 60
ctatacttat aataagggaa ataaatgagc ct 92

<210> 120
<211> 474
<212> DNA
<213> Homo sapiens

<220>
<221> unsure
<222> (318)
<223> a, c, g or t

<220>
<221> unsure
<222> (465)
<223> a, c, g or t

<400> 120
catcaccgct ctcctggcca ttctcacctt tccccaacct gccgaagacc cagagaatct 60
cctaggttct ccctttgctg gcgacctcat ccaccatcaa aacctccgcc agggtcctgg 120
ctgagtcatc atccatcaca gcaggctggt acaacatcac agtggaggac aattctctag 180
ggaccacaga ggatatgaat gtgacctggg ttagcaaagg cctccccaag aagctggagc 240
agagtggggc accaggatca gcccccaatc cctggacctt ggctgtgagc ctgcctgagc 300
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gtcaccttag atgttggaag agtctgttga gcttaacaaa ttgccagcaa ggtgagtgtg 420
cccaattctg gagacactct ttcccaggag attgggaatg cagtntttgg gtgc 474

<210> 121
<211> 357
<212> DNA
<213> Homo sapiens

<400> 121
gctaatctgg agagcactgc taaaatgtta gagtctaagt aagctctgta cccaggggat 60
aaaatgttac tggacagagc atacatgtat ctgttagagt gagattcttt gctcttttca 120
gtaaaggact actgactcaa aatcaattga agatcacata caggaaaact ttgaggtttt 180
ttttttttc ttcctcaaat catgggagag attttcaaag aagaaaaaat agaaaatatt 240
ttaatgcact ttaaaaatac aggtttgtct gcaccatctg tcaggtaaaa aaaaatgaat 300
tttagggaaa gagcacagat gtttattaat tcaatgtaga aagtatatta ctggctg 357

<210> 122
<211> 641
<212> DNA
<213> Homo sapiens

<400> 122
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ggattacagg cacccacaac cgcacccagc taatttttgt atttttagta gagatgggat 180
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ttctacattg aattaataaa catctgtgct ctttccctaa aattcatttt tttttacctg 360
acagatggtg cagacaaacc tgtattttta aagtgcatta aaatattttc tatttttttct 420
tctttgaaaa tctctcccat gatttgagga agaaaaaaaa aaaaacctca aagttttcct 480
gtatgtgatc ttcaattgat tttgagtcag tagtccttta ctgaaaagag caaagaatct 540
cactctaaca gatacatgta tgctctgtcc agtaacattt tatcccctgg gtacagagct 600
tacttagact ctaacatttt agcagtgctc tccagattag c 641

<210> 123
<211> 358
<212> DNA
<213> Homo sapiens

<220>
<221> unsure
<222> (79)
<223> a, c, g or t

<400> 123
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aacaatgcct ctcttctcna catacccccac acccaatcca tcagcaaatc ttgtcaactc 120
tgaattcaga atatacccca catccgaatg catctttcca tccctccacc aatcaccttc 180
cttcaagccc ccatcattct taactggatt atcataacca cctcctcact ggttgtactg 240
tttccactat tgtcccccgc tcatttaatc tatccttgta caccacacca gtgatcctgt 300
ttaaatgtaa atcagggcca gtcttggtgg ctgacacctg gaattccagc ctcccgag 358

<210> 124
<211> 475
<212> DNA
<213> Homo sapiens

<220>
<221> unsure
<222> (370)
<223> a, c, g or t

<400> 124
tgtagacaca gggtgtgtgt gtggggtctt gctatgttgc ccaggctggt ctcgaactcc 60
tatcctcaag tgatcctccc acctcagcct cccaaagttc tggaattcca ggtgtcagcc 120
accaagactg gccctgattt acatttaaac aggatcactg gtgtggtgta caaggataga 180
ttaaatgagc gggggacaat agtggaaaca gtacaaccag tgaggaggtg gttatgataa 240
tccagttaag aatgatgggg gcttgaagga aggtgattgg tggagggatg gaaagatgca 300
ttcggatgtg gggtatattc tgaattcaga gttgacaaga tttgctgatg gattgggtgt 360
ggggtatgtn gagaagagag gcattgttgg tgaccctggc atttttggcc tgagctattt 420

agtaagagag gaacacgagg aggagatcct atttgagggg ggaaatttag tattt 475

<210> 125
<211> 279
<212> DNA
<213> Homo sapiens

<400> 125
tgcaaataga gattgttata ccttttcctt tctattccaa agtgtctaaa agatttttc 60
ttagctagtg gcattggatg acacctataa tgtcttctaa aaatagtagc agtcataggc 120
accatttcct tattttgaat attcattcat gttacaaagt ttataggaat ttctgaatta 180
ttaagtactt ttaataggaa tgaaggttat tgtcattatt gcatcaaaat tccataagaa 240
agtttggtgg tcaaaatttg tggcctttgt ggtggtaag 279

<210> 126
<211> 465
<212> DNA
<213> Homo sapiens

<400> 126
ctttcaaagt ccactcaaaa attatctttc ttgaagtcac ccatgactga aacgtctccc 60
catcagatct tcagtgactc ttttcagaaa ttgccattag gcaaagaact gccaggatct 120
ttactagcaa tggtagttct tcctcccaaa aatgtggaaa ggctttgaga taaaagcact 180
tatctttaca cctgcaatga ctaggacaag aaaatgtcac tgccagcagt tgatgcttca 240
ccagcgtgtt gtaatatatg atgtgcattt tacatgtgga ctctcattta aattcttaaa 300
acatatccgt tagtcagata acatcatctc actttgcact ggaggaaacc aagttcagat 360
aggatatata ccattgaatg accaagaggt taataaatat tgatgatgta aaggaaaatt 420
atttctcagc agccaagtac taaaactttg taactggaga agatg 465

<210> 127
<211> 54
<212> DNA
<213> Homo sapiens

<400> 127
ggctttcaat ttccattgtc attccgcatt gctaatagtt tcttccaaat cctt 54

<210> 128
<211> 564
<212> DNA
<213> Homo sapiens

<220>
<221> unsure

<222> (551)
<223> a, c, g or t

<400> 128
tttggatttg gaatatggaa gaaagtctgg gataaattta tggatttgtg aaaagtttat 60
agaggaatgt aaaacaaagt ggaaaaggag accctaaaag aaatatgaaa aagtagacta 120
agaagagctc atatagaaag gaatctgagt agaacctgaa ttatctatga tcacaaaatc 180
ggtgcctcta ttttttctta ttggggatgc ctcatgcgtt gtatcttttc ttgaagagga 240
agacttccta tcacgtcctc ttagaaggct attcttagta atttccaaaa tgatagctta 300
cgcattagtt gaaataatac tagctgcttt aataaacaaa cccccaaatc tttgggactt 360
agcaaaatag acatttcttt atctctcatg taaagtccaa aactggtgtt cgtgattgat 420
agacagattt ttttttaaaa aatcagtggt taagatattc agactccttc catcttatat 480
ttttgccatt gtgaacactt ggctttcaat actgttatgt taatctgtct caagtcagag 540
gatggaggat nggggatcac tcat 564

<210> 129
<211> 172
<212> DNA
<213> Homo sapiens

<400> 129
atgaaatggg aaaattcatc gaatgacaca aactaccaca attcacttaa aataaaacac 60
acatacacat aacagataat ctgagagccg attatgaaat gaaggaattg aatttgtagc 120
ctaaaatgtt ttcaaaaaga aaattccaga gccatataac tttactggtg ga 172

<210> 130
<211> 484
<212> DNA
<213> Homo sapiens

<220>
<221> unsure
<222> (328)
<223> a, c, g or t

<220>
<221> unsure
<222> (418)
<223> a, c, g or t

<220>
<221> unsure
<222> (432)
<223> a, c, g or t

<400> 130

gttttgctaa tttccaggaa cattccccca caacagctgg tacaggcttt tctacactac 60
tcaaggcccc agttgtacct tcttccattc tcagcagagt ttctcacctt caaatgtact 120
aaaataatgc agcctctcaa caaacactca ctgagacttc tttgccaggc aatggagata 180
agtgagcccc ctcaaggagt ccacaggcca gtggaggaga aggaaatgca acagggtgat 240
ataggaatat tcttggtgtc actgatggat tttgaggata gtgccatcat gaggacagtg 300
tttagggaag aggagtgagg caggtgtngg agggactgga ggatgtagag atagtggcag 360
gaaggcagag aaagatgcca cagtctaggt gaagggtaag aagtcctggt tggagatngg 420
ggtgaagagg angtgctgcc gaggtgacgg gtgtgaatga tcttgcaaag gtaagtagca 480
acgt 484

<210> 131
<211> 901
<212> DNA
<213> Homo sapiens

<400> 131
gcaatatatt ccttcatgag ctttgttttc ctgcagtgcc caatgatcca cttgtaccga 60
ctgctgtgtt aggtgaggcc ctaaatcttt atcatctttt cattgcatgg atcacacctc 120
cttgcatggg tttgcccaca tagagattat ttacagtgca ggaggcagct tggttttgaa 180
aatagacagc catggtatta tcaaagagag caactgtgtt caacccaata tcagatctag 240
tggatttcaa attagcaagg catgctattt aatgtattct tcaattcttg gttgttagat 300
ttggagcaaa agtacatggc ccttaatgtc tgactaatat taatgtgtca aaattagtag 360
aatgaagcca aatgcataca tctggagggt gcaatgttgc ctgaataact agtttatatg 420
taaaagtcta cctaatggaa agggatgttt ctaaaatcct cccaatttat aaccacgaaa 480
gaacaaattt acaagtaaat attaggatta tgtgcatttg ctctagcttt tgtctttatt 540
aagaatgttt taatgtaggt aaagttgcta aaatcttgat gtggggtttg acattctaca 600
tgaaccttac ctgataagta atgttatctt tcaagaaatt tagaacaagc tacttgggtt 660
accactgtat aacatctaag acaatgctat tactaatgac aattaacgct tttacagatg 720
taaaattata ttaattttta aacctaccta tatatttaag aatggaatgg gtttcatttt 780
tcatttcact ttgtaccctg ttccttgact aattatacac caatgattag taatcagctt 840
gcctgtatgt ttacaggttc catatcaatt ttaccagcgt ttctagttaa gctttaacca 900
a 901

<210> 132
<211> 782
<212> DNA
<213> Homo sapiens

<400> 132
caaggaaaat aataagtaaa atgcaagtaa atcagaattt gcaaagaaaa aattatgaat 60
taaacaacat tgaaaagtat ctggtaatct gtaccaatct actttgtaag ttagttgaag 120
aaagaagata aggggatata attacaaata aagagaactt tttaaaaata aaaagaataa 180
catatatcat ttttatcata tatgtaatca ttatacatgt aacgaaatat atgtaaaata 240
gcatatacat tttaaaaaaa tctagaatcc agatgaaatg catagtttct agaaaaatgt 300
aaattactaa cattgactca agaaaagtag ataacctaaa tagaccaatt acaatacaag 360
aaaccaaata tagttaaaat attcccttaa agaaacatta aaaaatttag ttttatggtg 420

gctgattaaa atgaccattt cttatttttt tctttcaatt attattaaaa actaaccaga 480
aaaataaaaa gcaaaaaagt taaattcttt ggttgaaacc agcagactac ttaaatctct 540
gaattgcaaa ataagaagcg agcagcccaa atcagtcaag gtgaaacagg tgtgagtgga 600
gagagacact ggaaaaaaat ggtcataact tcagagctca gaaaatgttg gcaaagcatt 660
ccttactaac ttaagtggca caacctattg caaaacggca cgtttttctt tacaacagga 720
ccaaggtcta gggactctta gtgggaaatt acctgagtct gattctgagg agaaatagag 780
ag 782

<210> 133
<211> 413
<212> DNA
<213> Homo sapiens

<220>
<221> unsure
<222> (293)..(347)
<223> a, c, g or t

<220>
<221> unsure
<222> (389)
<223> a, c, g or t

<400> 133
gttcctcaaa cccagcatgt ctgttcccac ctcagaggct tagcgcatgc tgtagcccct 60
gactggggag ctcctcctca gatatttgca tggcagtgcc ttcatcactc aagaacctac 120
tcaaggtcac ctcctcagat gagccctccc tgccaatcca gtatcgtctc cctccttatt 180
tactttaatt tttccatggc tctcagcatc attatctgaa aatgtaccta ttgtgcgttt 240
gtttacttgc ttattgtcta tttcccacac ttgaatgttc catagggcag ctnnnnnnnn 300
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnaat tttgttgttg 360
ttgagtgaga aacaaattgg tcctttggnc gttccccaca caagcatagc tat 413

<210> 134
<211> 440
<212> DNA
<213> Homo sapiens

<220>
<221> unsure
<222> (300)
<223> a, c, g or t

<220>
<221> unsure
<222> (311)
<223> a, c, g or t

<220>
<221> unsure
<222> (328)
<223> a, c, g or t

<220>
<221> unsure
<222> (347)
<223> a, c, g or t

<220>
<221> unsure
<222> (372)
<223> a, c, g or t

<220>
<221> unsure
<222> (378)
<223> a, c, g or t

<220>
<221> unsure
<222> (396)
<223> a, c, g or t

<220>
<221> unsure
<222> (399)
<223> a, c, g or t

<220>
<221> unsure
<222> (408)..(410)
<223> a, c, g or t

<400> 134
tcggctcgag caggaatgag ccactgcgcc tagcctatgt tccttgatta atacctccaa 60
atctgttcaa gaaatatgac aatcaaatca catgcaagtg gtatacagag caaaattggt 120
tgggttagct actatattga atatttccat taaaaggact agaagggaaa cacacatgat 180
gatttctctt tttccaagag gcattttggg cagaggtaac aatgaggcag tggaggtatc 240
ctacaatttg aagcaatttt tctccttatt agccatttca tgaaaattat actataacan 300
ccatcagagg nagatatttt gttcaganta atatctatat ggcctgnaaa cagactaaga 360
agttatcatc cnccccttntg ttgttttgaa atttantcna aaaataannn ttttggatta 420
tatatatata ttatattttt 440

<210> 135

<211> 186
<212> DNA
<213> Homo sapiens

<400> 135
ggtcatttga gataccttgt taatttagtt ttaagtaatc aagagtggtg atgttttatt 60
catctttaaa actgttatga ctgaacggtc agaaatgatg gtatgtcttg ttctgttacc 120
aactagcaat ttatgtttca gtaaactgct ctatgtgata attcttgtgt taaaaatacc 180
attact 186

<210> 136
<211> 91
<212> DNA
<213> Homo sapiens

<400> 136
tttgtacacc tattttagaa gttcctataa atactttgaa ataagatctt tccccccttc 60
atggcaacca catatctact atatatctct g 91

<210> 137
<211> 76
<212> PRT
<213> Homo sapiens

<400> 137
Met Lys Gly Leu Tyr Gln Ala Ala Phe Gln Leu Leu Glu Lys His Phe
1 5 10 15

Leu Ser Thr Gly Leu His Leu Lys Leu Pro Ser Trp Tyr Leu Val Glu
20 25 30

Ala Gly Phe Gln Ala Glu Glu Ser Gly Pro Gly Leu Cys Ala Phe Ser
35 40 45

Ser Ser Ala Gln Leu Leu Leu Gly His Pro Cys Asp Ile Ile Phe His
50 55 60

Leu Thr Thr Ala Lys Gly Arg Asn Ala Arg Leu Ile
65 70 75

<210> 138
<211> 48
<212> PRT
<213> Homo sapiens

<400> 138
Met Ser Pro Ile Leu Gln Arg Ala Pro Leu Ala Thr Ser Leu Cys Trp
1 5 10 15

Leu Ser Gly Gly Glu Gly Ile Ser Gly Ala Leu Asp Met His Leu His
20 25 30

Tyr His Trp Phe Pro Val Phe Tyr Glu Val Ser Ile Ser Asp His Gly
35 40 45

<210> 139
<211> 82
<212> PRT
<213> Homo sapiens

<220>
<221> UNSURE
<222> (32)..(39)

<400> 139
Met Asn Arg Thr Ser Pro Pro Trp Gly Val Glu Arg Ser Trp Ser Asn
1 5 10 15

His Leu Ser Gly Gly Thr Thr Phe Leu Tyr Cys Cys Leu Val Ile Xaa
20 25 30

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Asp Asn Leu Leu Thr Ile Ala Gln Thr
35 40 45

Tyr Met Leu Phe Met Val Tyr Leu Lys Ile Lys Ser Lys Thr Lys Met
50 55 60

Thr Asn Val Ser Ser Ala Asn Cys Cys Ser Gly Ser Tyr Tyr Ser Leu
65 70 75 80

Tyr Phe

<210> 140
<211> 20
<212> PRT
<213> Homo sapiens

<400> 140
Met Pro Leu Ser Phe Gln Thr Cys Ala His Cys Ser Ala Thr Trp Phe
1 5 10 15

Ala His Pro Met
20

<210> 141
<211> 47
<212> PRT
<213> Homo sapiens

<400> 141
Met Cys Lys Asn Gly Ile Ile Thr Ser Thr Ser Leu Val Glu Lys Thr
1 5 10 15

Thr Trp His Arg Val Asn Ser Gln Cys Met Ser Glu Phe Thr Lys Cys
20 25 30

Gly Asn Asn Met Thr Phe Phe Ser Gly Cys Ile Leu Tyr Leu Met
35 40 45

<210> 142
<211> 49
<212> PRT
<213> Homo sapiens

<400> 142
Met Thr Thr Asn Phe Glu Asn Arg Leu Ser His Asn Lys Leu Glu Phe
1 5 10 15

Met Glu Thr Ser Val Glu Gly Asn Thr Thr Phe His Pro Phe Thr Glu
20 25 30

Ile Ile Tyr Leu Gln Leu Arg Ile Ile Cys His Val Tyr Tyr Leu Leu
35 40 45

Met

<210> 143
<211> 36
<212> PRT
<213> Homo sapiens

<220>
<221> UNSURE
<222> (8)

<220>
<221> UNSURE
<222> (23)

<400> 143
Met Asp Gln Lys Cys Gln Val Xaa Ser Lys Thr Ala Ala Trp Ala Cys
1 5 10 15

Trp Thr Leu Tyr Pro Lys Xaa Val Val Val Ser Arg Asn Leu Ala Thr
20 25 30

Ser Asn Arg Asp
35

<210> 144
<211> 92
<212> PRT
<213> Homo sapiens

<400> 144
Gln Met Gly Asp Glu Glu Ser Pro Asn Lys Gly Pro Ile Pro Ile Cys
1 5 10 15

Tyr Thr Leu Phe Arg Lys Phe Trp Gln Leu Arg Asp Ser Ser Gly Thr
20 25 30

Leu Val Gln Cys Phe Glu Lys Ile Pro Gly Lys Thr Phe Pro Arg Tyr
35 40 45

Pro Glu Glu Val Ala Pro Val Phe Arg Gly Phe Lys Leu Val Asp Pro
50 55 60

Gln Pro Ser Gly Lys Lys Met Glu Glu Cys Lys Thr Gly Gly Glu His
65 70 75 80

Val Tyr Phe Ala Lys Phe Leu Thr Ser Glu Lys Val .
85 90

<210> 145
<211> 95
<212> PRT
<213> Homo sapiens

<400> 145
Met Ile Lys Phe Cys Leu Arg Ile Leu Thr Leu Pro Glu Ser Asp Gln
1 5 10 15

Gln Ile Val Thr Cys Tyr Pro Asn Phe Leu Thr Gly Pro Tyr Lys Leu
20 25 30

His Ile Leu Ser Val Arg Leu Ser Asp Val Ser Glu Ile Phe Trp Ala
35 40 45

Leu Leu Gly Thr Leu Leu Ser Arg Asn Pro Asp Val Ile Val Leu Tyr
50 55 60

Phe Lys Lys Val Val Leu Leu Gln Ala Leu Ile Glu Asp Glu Leu Met
65 70 75 80

Glu Arg Leu Lys Glu Met Met His Val Asn Ile Arg Val Pro Lys
85 90 95

<210> 146
<211> 81
<212> PRT
<213> Homo sapiens

<220>
<221> UNSURE
<222> (19)

<400> 146
Met Tyr Thr Gly Thr Gln Ser Val His Thr His Glu Tyr Val His Thr
1 5 10 15

His Thr Xaa Ala His Thr His Thr Asn Thr Pro Asn Cys Asp Met Met
20 25 30

Arg Phe Ala Asn Asp Gly Thr Ala Ser Gln Asp Leu Cys Ala Thr Thr
35 40 45

Glu Gln Ser Ser Lys Gln Ala Ser Arg Pro Leu Tyr Leu Phe Ser Val
50 55 60

Val Thr Thr Leu Leu Val Ser Arg Ser Gln Arg Ser Arg Tyr Leu Lys
65 70 75 80

Ser

<210> 147
<211> 43
<212> PRT
<213> Homo sapiens

<400> 147
Met Ser Leu Ile Ser Thr Trp Tyr Pro Leu Ser Tyr Thr Gly Tyr Val
1 5 10 15

Ser Gly Ser Leu Gln Leu Gln Phe Met Ala Val Tyr Lys Ile Ser Pro
20 25 30

Glu Leu Val Leu Thr Ser Phe Tyr Phe Cys Lys
35 40

<210> 148
<211> 93
<212> PRT
<213> Homo sapiens

<220>
<221> UNSURE
<222> (23)..(31)

<220>
<221> UNSURE
<222> (76)

<220>
<221> UNSURE
<222> (92)

<400> 148
Met Phe Leu Leu Thr Thr Gln His Pro Gln Cys Leu Thr Tyr Ser Arg
1 5 10 15

Cys Tyr Val Ser Ala Phe Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Val
20 25 30

Cys Trp Val Gly Glu Gly Pro Gly Glu Gly Ser Gly Thr Glu Gly Met
35 40 45

Pro Gly Ser Leu Leu Pro Thr Ala Ser Thr Asp Gln Gln Arg Leu Gly
50 55 60

Pro Lys Gly Asp Ile Pro Gly Gly Arg Gly Arg Xaa Pro Pro Cys Leu
65 70 75 80

Pro Ala Gly Gly Pro Arg Arg Arg Ala Gly Arg Xaa Thr
85 90

<210> 149
<211> 53
<212> PRT
<213> Homo sapiens

<400> 149
Met Gln Pro Ile Tyr Asn Lys His Ser Pro Cys Asn Pro Ser Ser Pro
1 5 10 15

Thr His Leu Thr Leu Pro Glu Lys Met Ala Asn Tyr Val Arg Ala Leu
20 25 30

Cys Ile His Leu Phe Val Val Lys Thr Arg Arg Gly Val Ser Ser Glu
35 40 45

Met Gly Lys Arg Leu
50

<210> 150
<211> 36
<212> PRT
<213> Homo sapiens

<220>
<221> UNSURE
<222> (20)

<400> 150
Met Pro Leu Phe Thr Leu Glu Ser Ile Pro Ile Cys Ile Ile Lys Tyr
1 5 10 15

Met Val Ala Xaa Leu Leu Ser Tyr His Tyr Gln Phe Cys His Gln Tyr
20 25 30

Val Ile Ala Leu
35

<210> 151
<211> 47

<212> PRT
<213> Homo sapiens

<400> 151
Met Ala Gly Pro Pro Cys Arg Ala Thr Leu Glu Arg Cys His Thr His
1 5 10 15

Ala Thr Asp Gly Trp Tyr Val Leu Ser Ser Val Glu Gly Asp Ile Asn
20 25 30

Val Gly Trp Ser Asp Glu Arg Arg Leu Pro Glu Arg Ser Gly Leu
35 40 45

<210> 152
<211> 41
<212> PRT
<213> Homo sapiens

<400> 152
Met Val Thr Ala Ala Pro Val Tyr Leu Leu Gln Ile Arg Asn Leu Trp
1 5 10 15

Leu Arg Ala Ala Arg Ser Gln Gly Gln Ala Asp Ser Ala Asp Lys Trp
20 25 30

Gln Ser Trp Asn Pro Leu Pro Gly Val
35 40

<210> 153
<211> 81
<212> PRT
<213> Homo sapiens

<400> 153
Met Thr Ala Gly Pro Leu Asp Gly Trp Met Val Arg Glu Glu Lys His
1 5 10 15

Ser Cys Thr Arg Lys Thr Gly Arg Lys Arg Ser Gln Ala Gln Gln Ile
20 25 30

Pro Ser Gly Trp Trp Lys Trp Ser Ser Ala Lys Tyr Cys Cys Tyr Cys
35 40 45

Cys Cys Arg Leu Cys Met Asn Phe Ile Tyr Leu Asp Pro Gly Ala His
50 55 60

Ala Ala Glu Ser Leu Phe Gln Val Lys Cys Leu Gly Val Pro Ser Arg
65 70 75 80

Ser

<210> 154
<211> 51
<212> PRT
<213> Homo sapiens

<400> 154
Met His Phe Lys Lys Thr Lys Leu Gln Tyr His Tyr Tyr Ile Leu Lys
1 5 10 15

Leu Thr Leu Val Pro Tyr His His His Ile Ser Ser Gln Glu Leu Asn
20 25 30

Tyr Pro Asp Cys Leu Arg Ile Phe Leu Pro Val Gly Leu Leu Glu Ser
35 40 45

Glu Phe Lys
50

<210> 155
<211> 10
<212> PRT
<213> Homo sapiens

<400> 155
Met Gln Asn Lys Val Arg Gly Ser Ile Lys
1 5 10

<210> 156
<211> 41
<212> PRT
<213> Homo sapiens

<400> 156
Met Asp Gln Glu Lys Lys Thr Leu Gln Ser Lys Leu Asn Leu Glu Val
1 5 10 15

Gly Glu Ala Gly Arg Lys Lys Asn Arg Arg Glu Leu Lys Met Met Arg
20 25 30

Gly Leu Glu Thr Ile Gln Ser Gln Lys
35 40

<210> 157
<211> 36
<212> PRT
<213> Homo sapiens

<400> 157
Met Asp Ser His Pro Pro Phe Leu Asn Leu Leu Ala Lys Ile Asn Met
1 5 10 15

Pro Leu Tyr Cys Asp Pro Ile Ile Val Ser Thr Tyr Leu Phe Leu Ile
20 25 30

Thr Cys Met Leu
35

<210> 158
<211> 57
<212> PRT
<213> Homo sapiens

<400> 158
Met Ser Tyr Glu Thr Arg Leu Tyr Ser Tyr Pro Ile Phe Ala Gly His
1 5 10 15

Leu Ser Asp Ile Ile Ser Tyr Val Met Phe Ile Ala Thr Leu Asp Lys
20 25 30

Thr Leu Lys Thr Phe Leu Ser Leu Gly Ala Lys Tyr Ser Asn Gln Gly
35 40 45

Asp Ser Phe Ala Tyr Leu Val Val Lys
50 55

<210> 159
<211> 57
<212> PRT
<213> Homo sapiens

<400> 159
Met Gly Glu Gly Lys Leu Thr Gly Phe Pro Trp Ser Arg Glu Gln Gln
1 5 10 15

Met Ala Ala Ala Arg Gln Ala Arg His Gly Ser Gln Arg Lys Arg Pro
20 25 30

Ile Gly Phe Arg Val Trp Met Gln Ile Tyr Lys Cys Gly Gln Lys Ile
35 40 45

Gln Thr Ser Ser Ile Lys Glu Gly Ala
50 55

<210> 160
<211> 103
<212> PRT
<213> Homo sapiens

<400> 160
Met Cys Val Val Thr Ser Ser Pro Pro Ser Val Asp Ile Val Asn Asn
1 5 10 15

Ile Leu Gly Gly Cys Thr Pro Pro Ala Ile Trp Gly Val Ala Ser Ser
20 25 30

Ser Pro Pro Leu Asp Ile Ile Asn Asn Ile Thr Arg Gly Cys Thr Leu
35 40 45

Pro Val Ile Lys Gly Glu Ile Gln Phe Phe Pro Pro Gln Arg Tyr Tyr
50 55 60

Glu Gln Tyr Arg Arg Glu Leu Phe Ser His Ala Ile Trp Gly Val Thr
65 70 75 80

Ser Ser Ser Ser Pro Trp Ile Leu Arg Lys Ile Met Gln Gly Asn Val
85 90 95

Asn Pro Leu Arg Tyr Gly Glu
100

<210> 161
<211> 46
<212> PRT
<213> Homo sapiens

<400> 161
Met Phe Tyr Gln His Leu Ile Ser His Asn Ile Ile Val Leu Asn Val
1 5 10 15

His Ile Lys Lys Asn Gln Lys Arg Leu Trp Thr Phe Ile Lys Gln Gly

```
            20                  25                  30

Tyr Thr Lys Gln Val Pro Ile Ser Phe Lys Arg Leu Lys Ser
         35                  40                  45


<210> 162
<211> 22
<212> PRT
<213> Homo sapiens

<400> 162
Met Leu Asn Lys Val Gly Ser His Lys Asn Gln Ile Leu Ser Glu Ser
  1               5                  10                  15

Thr Tyr Lys Arg Tyr Arg
            20


<210> 163
<211> 76
<212> PRT
<213> Homo sapiens

<400> 163
Met Ser Thr Val Val His Leu Tyr Ser Cys Phe Asn Gln Ser Phe Glu
  1               5                  10                  15

Ile Gln Tyr Val Asn Lys Val Ser Asn Asn Pro Glu Ser Leu Lys Cys
            20                  25                  30

Thr Asn Ile Gln Val Gln Phe Ile Phe Tyr Phe Lys Arg Lys Val Lys
         35                  40                  45

Glu Leu His Cys Leu Asn Gly Phe Ser Val Tyr Asn Lys Arg Tyr Ile
     50                  55                  60

Asn Asp Phe Lys Asn Lys Lys Ser Lys Ile Glu Ser
 65                  70                  75


<210> 164
<211> 38
<212> PRT
<213> Homo sapiens

<400> 164
Met Lys Asn Ala Ala Ile Ile Ser Lys Ile Trp Cys Ser Thr Leu Ile
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  1               5                  10                  15

His Thr Asp Thr Pro Gly Val Leu Pro Thr Ile Ser Phe Val Pro Leu
             20                  25                  30

Val Gln Met Leu Ile Trp
         35
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<210> 165
<211> 53
<212> PRT
<213> Homo sapiens

<400> 165

```
Met Gln Ser Pro Arg Met Ile Glu Asp Tyr Leu Leu Leu Asp Gln His
  1               5                  10                  15

Ala Val Trp Arg Trp Arg Arg Asn Ser Phe Arg Phe Arg Gln Lys Pro
             20                  25                  30

Ser Tyr Leu Ser Leu Tyr Tyr Ile Asn Phe Phe Met Thr Arg Val Glu
         35                  40                  45

Val Asn Val Leu Lys
     50
```

<210> 166
<211> 23
<212> PRT
<213> Homo sapiens

<400> 166

```
Met Val Trp Tyr Phe Cys Gly Leu Phe Pro Ile Met Asp Thr Phe Ser
  1               5                  10                  15

Phe Gln Thr Phe Gly Asn Lys
             20
```

<210> 167
<211> 32
<212> PRT
<213> Homo sapiens

<400> 167

```
Met Ile Phe Lys Ser Tyr Phe Gly Ala Ala Val Cys Tyr Leu Pro Leu
```

1 5 10 15

Ala Phe Cys Met Lys Arg His Ser Leu Ser Ile Leu Leu Arg Glu Asp
20 25 30

<210> 168
<211> 48
<212> PRT
<213> Homo sapiens

<220>
<221> UNSURE
<222> (16)..(26)

<400> 168
Met Ser Ser Asp Lys Lys Lys Lys Gln Glu Tyr Thr Cys Asn Cys Xaa
1 5 10 15

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Ser Gly Arg Asp Lys Gly
20 25 30

Glu Arg Asn Glu Gly Phe Tyr Leu Ile Phe Gly Arg Lys Ala Val Ala
35 40 45

<210> 169
<211> 21
<212> PRT
<213> Homo sapiens

<400> 169
Met Asn Ser Asn Arg Ile Asn Thr Met Lys Phe Thr His Ser Gln Thr
1 5 10 15

Thr Lys Asn Glu Arg
20

<210> 170
<211> 35
<212> PRT

<213> Homo sapiens

<400> 170
Met Gln Leu Gln Cys Leu Ile Lys Leu His Thr Trp Lys Leu Ser Val
1 5 10 15

Asn Ala Tyr Cys Cys His Tyr Trp Cys Lys Leu Asn Leu Asn Ile Ser
20 25 30

Ser His Ile
35

<210> 171
<211> 14
<212> PRT
<213> Homo sapiens

<400> 171
Met Lys Trp Thr Pro Thr Ser Tyr His Thr Gln Asn Arg Ser
1 5 10

<210> 172
<211> 70
<212> PRT
<213> Homo sapiens

<400> 172
Met Pro Gly Pro Phe Ser Tyr Leu Ser Tyr Phe Leu Gln Asn Tyr Met
1 5 10 15

Glu Cys Tyr Phe Glu Thr Asn Thr Ile Gln Ile Asn Leu Tyr Ser Ala
20 25 30

Tyr Ser Pro Thr Pro Phe Pro Tyr Lys Lys Ser Glu Glu Asn Glu Thr
35 40 45

Pro Gln Ala Phe Tyr Gly Lys Ile Leu Phe Val Cys Lys Ala Ile Ser
50 55 60

Glu Ala Met Leu Gly Leu
65 70

<210> 173
<211> 76
<212> PRT

<213> Homo sapiens

<220>
<221> UNSURE
<222> (26)

<400> 173
Met Leu Leu Glu Ser Pro Lys His Leu Ala Arg Pro Pro Thr Asn Gln
1 5 10 15

His Val Asn Ser Ser Arg Thr Arg Arg Xaa Leu Leu Arg Ser Pro Arg
20 25 30

Gly Pro Gly Arg His Leu Thr Leu Arg Thr Ala Gly Val Leu Tyr Val
35 40 45

Ser Ile Thr Gln Gln Thr Arg Asn Ala Trp Gln Tyr Thr Pro Pro Leu
50 55 60

Leu Leu Pro Gly Pro Trp Gln Glu Arg Asp Lys Tyr
65 70 75

<210> 174
<211> 136
<212> PRT
<213> Homo sapiens

<220>
<221> UNSURE
<222> (129)

<220>
<221> UNSURE
<222> (134)

<400> 174
Met Lys Trp Ser Pro Trp Ile Met Gly Arg Asp Gly Thr Met Gly Ser
1 5 10 15

His Pro Arg Gly Pro Gly Arg Cys Ser Arg Gly Trp Asp Gln Leu Leu
20 25 30

Leu Leu Cys Phe Ser Thr Phe Leu Ser His Leu Glu Glu Glu Arg Ile
35 40 45

Leu Leu Pro Phe Thr Gly Lys Thr Thr Glu Ala Leu Trp Ser Ser Ala
50 55 60

Gly Met Gln Gly Arg Leu Trp Gln Ala Gly Leu Gln Val Arg Pro Trp
65 70 75 80

Gly Ser Glu Glu Glu Gly Ala Cys Gln Glu Leu Pro Thr Arg Ser Gly
85 90 95

Arg Ile His Met Leu Ile Cys Arg Arg Pro Gly Gln Val Leu Arg Arg
100 105 110

Leu Gln Gln His Arg Ser Ser Asp Thr Leu Gly Glu Ala Ser His His
115 120 125

Xaa Thr Arg Glu Val Xaa Leu Pro
130 135

<210> 175
<211> 45
<212> PRT
<213> Homo sapiens

<400> 175
Met Val Asp Leu Pro Phe Lys Thr Leu Cys Leu Trp Gly Pro Gly Leu
1 5 10 15

Cys Leu Thr Asp Leu Leu Thr Pro Ala Pro Gly Pro Asp Leu Val Leu
20 25 30

Arg Lys Cys Met Leu Thr Asp Trp Met Asn Val Leu Phe
35 40 45

<210> 176
<211> 82
<212> PRT
<213> Homo sapiens

<400> 176
Met Arg Asn Ala Leu Pro Leu Leu Gln Ser Met Leu Glu Lys Ser Pro
1 5 10 15

Thr Ala Val Arg Leu Gln Leu Asn Trp Ala Ile Lys Asp Gln Gln Ile
20 25 30

Pro Ala Glu Thr Tyr Pro Ala Val Asp Ile Thr Ala Ser Gly Ile Gly
35 40 45

His Gly Arg Ala Trp Arg His Glu Arg Ala Arg Tyr Val Gly Lys Arg
50 55 60

Met Ser Gly Glu Glu Glu His Gln Ile Arg Ile Glu Asn Ile Lys Ser
65 70 75 80

Asn Arg

<210> 177
<211> 60
<212> PRT
<213> Homo sapiens

<400> 177
Met Arg Arg Gly Phe Gly Arg Ser Leu Ser Trp Ala Arg Pro Ser Leu
1 5 10 15

Tyr Ser Arg Ile Pro Arg Phe Ser Ala Pro Leu Ser Ser Ala Tyr Tyr
20 25 30

Val Leu Gly Thr Met Leu Asn Val Leu Leu Thr Trp Ser His Phe Asn
35 40 45

Thr His Asn Ser Ile Leu Arg Arg Glu Asn Ser Gly
50 55 60

<210> 178
<211> 31
<212> PRT
<213> Homo sapiens

<400> 178
Met Ser Gly Leu Phe Ile Phe Ile Ile Val Asn Ile Ser Ile Val Thr
1 5 10 15

Asn Tyr Asn Lys Ile Tyr Leu Ser Ile Ser Thr Leu Ile Arg Ile
20 25 30

<210> 179
<211> 61
<212> PRT
<213> Homo sapiens

<220>

<221> UNSURE
<222> (21)

<220>
<221> UNSURE
<222> (53)

<400> 179
Met Pro Pro Ile Leu Gln Met Arg Pro Ala Gly Leu Lys Ala Gly Arg
1 5 10 15

Glu Val Leu Gly Xaa Cys His Ala Gln Gly Cys Cys Leu Leu Ser Ala
20 25 30

Gln Pro Phe Cys Lys Thr Ser Leu Pro Pro Gln Gln Ser Cys Phe Leu
35 40 45

Pro Gly Glu Gly Xaa Val Leu Ile Ser Ala Phe Gly Gly
50 55 60

<210> 180
<211> 77
<212> PRT
<213> Homo sapiens

<220>
<221> UNSURE
<222> (4)

<220>
<221> UNSURE
<222> (23)..(55)

<400> 180
Met Gly Leu Xaa Thr Thr Phe Leu Arg Arg Gly Gln Arg Ala Ser Ser
1 5 10 15

Phe His Gln Glu Arg Ile Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
20 25 30

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
35 40 45

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Ser Ala Leu Trp Gly Gln Phe His His
50 55 60

Ser Leu Glu Ser Asp Val Met Thr Leu Gly Leu Ser Pro

65 70 75

<210> 181
<211> 64
<212> PRT
<213> Homo sapiens

<400> 181
Met Lys Leu Pro Ser Pro Tyr Ala Leu Glu Pro Pro Pro Leu Ser His
1 5 10 15

Pro Gly Thr Ser Pro Gln Gln Phe Ser Leu Leu Ser Pro Phe Ser Leu
20 25 30

Ile Ser Pro Ser Asn Trp Ile Ile Leu Ile Cys Ile Gln Thr Cys His
35 40 45

Cys Ile Phe Tyr Phe Lys Asn Thr Lys Lys Asn Leu Asp Tyr Met Ser
50 55 60

<210> 182
<211> 122
<212> PRT
<213> Homo sapiens

<400> 182
Phe Phe Phe Leu Arg Gln Ser Gly Ser Val Ala Gln Ala Thr Glu Cys
1 5 10 15

Arg Gly Met Ile Ser Ala His Cys Ser Leu His Leu Leu Gly Ser Ser
20 25 30

Asp Ser Pro Thr Ser Ala Ser Arg Val Ala Gly Thr Thr Gly Thr Cys
35 40 45

His His Ala Trp Leu Ile Phe Val Phe Leu Val Glu Ala Gly Phe His
50 55 60

His Leu Gly Gln Thr Ser Leu Gln Leu Leu Thr Ser Ser Asp Pro Ser
65 70 75 80

Thr Leu Ala Ser Lys Ser Ala Glu Ile Thr Gly Val Ser His His Ala
85 90 95

Trp Arg Val Leu Leu Phe Asn Val Ala Thr Arg Lys Phe Thr Leu Ser
100 105 110

Leu Trp Leu Thr Leu His Leu Phe Tyr Val
115 120

<210> 183
<211> 11
<212> PRT
<213> Homo sapiens

<400> 183
Met Cys Gly Ile Leu Glu Pro Val Leu His Arg
1 5 10

<210> 184
<211> 75
<212> PRT
<213> Homo sapiens

<400> 184
Met Phe Ile Pro Ile Thr Val Gly Thr Ile Lys Ala Ile Ser Leu Tyr
1 5 10 15

Pro Leu Pro Tyr Leu Arg Lys Arg Lys Ile Asn Asn Lys Val Met Lys
20 25 30

Glu Asn Thr Leu Ala Ile Ser Pro Phe Ser Ser Gln Trp Leu Asn Leu
35 40 45

Thr Pro Thr Tyr Asp Pro Ala Leu Lys Tyr Ser Thr Ile Lys Cys Lys
50 55 60

Glu Arg Glu Asn Trp Gly Ser Lys Val Lys Lys
65 70 75

<210> 185
<211> 31
<212> PRT
<213> Homo sapiens

<220>
<221> UNSURE
<222> (23)..(24)

<400> 185
Met Leu Thr Val Lys Thr Leu Leu Ser Gln Val Cys Pro Tyr Leu Cys
1 5 10 15

Pro Leu Leu Leu Leu Gly Xaa Xaa Lys Lys Lys Lys Ile Gln Leu
20 25 30

<210> 186
<211> 37
<212> PRT
<213> Homo sapiens

<400> 186
Met Arg Leu Ala Val Leu Phe Trp His Thr Ser Tyr Ile Tyr Ile Cys
1 5 10 15

Tyr Lys Pro His Thr Thr Leu Phe Leu Leu Gly Arg Phe Leu Lys Asn
20 25 30

Met Lys Leu Tyr Arg
35

<210> 187
<211> 69
<212> PRT
<213> Homo sapiens

<400> 187
Met Pro Ser Val Gln Gln Ala Leu Ser Thr Pro Leu Ser Gly Val His
1 5 10 15

Val Arg Val Leu Ser Glu Leu Thr Leu Leu Cys Thr Leu Cys Thr His
20 25 30

Ser Ile Ile Cys Thr Gln Leu Phe Ser Trp Glu Met Gln Leu Cys Leu
35 40 45

Val Phe Pro Ala Pro Ser Thr Leu Ser Asn Cys Thr Ser Phe Leu His
50 55 60

Leu Ala Ile Ser Leu
65

<210> 188

<211> 72
<212> PRT
<213> Homo sapiens

<220>
<221> UNSURE
<222> (5)

<220>
<221> UNSURE
<222> (11)

<220>
<221> UNSURE
<222> (57)..(59)

<400> 188
Met Ser Ile Ile Xaa Leu Phe Tyr Ser Thr Xaa Phe Gly Ala Cys Tyr
1 5 10 15

Gly Gly Met Val Ser Gly Ile Val Ala Met Lys Ser Met Ser Phe Glu
20 25 30

Glu Ala Gln Gly Lys Phe Arg Lys Phe Ser Cys Met Arg Lys Cys Leu
35 40 45

Leu Thr Asn Thr Gly Leu Lys Lys Xaa Xaa Xaa Phe Ser Val Phe Val
50 55 60

His Ser Leu Gln Asn Leu Leu Leu
65 70

<210> 189
<211> 18
<212> PRT
<213> Homo sapiens

<400> 189
Met Ile Leu Val Gly Arg Ser Pro Leu Ala Phe Met Met Ile Leu Tyr
1 5 10 15

Val Cys

<210> 190
<211> 38

<212> PRT
<213> Homo sapiens

<220>
<221> UNSURE
<222> (2)

<220>
<221> UNSURE
<222> (26)..(27)

<400> 190
Met Xaa Leu Thr Met Arg Ile Thr His Leu Ile Cys Ile Leu Val Ser
1 5 10 15

Ser Leu Gly Ile Ile Asn Ala Ile Phe Xaa Xaa Phe Leu Phe Ser Phe
20 25 30

Gln Phe Phe Cys Ile Pro
35

<210> 191
<211> 24
<212> PRT
<213> Homo sapiens

<400> 191
Met Leu Leu Tyr Lys Tyr Ser Tyr Lys Ile Gly Lys Gln Asp Ala Thr
1 5 10 15

Gln Val Ala Glu Asp Gln Arg Leu
20

<210> 192
<211> 39
<212> PRT
<213> Homo sapiens

<220>
<221> UNSURE
<222> (27)

<400> 192
Met Phe Thr Val Gly Pro Tyr Gly Val Leu Arg Leu His Phe Ile Ser
1 5 10 15

Cys Asn Ile Phe Val Cys Cys Phe Phe His Xaa Leu Leu Ile Cys Val
20 25 30

His Ile Thr Asn Ser Val Ser
35

<210> 193
<211> 43
<212> PRT
<213> Homo sapiens

<220>
<221> UNSURE
<222> (37)..(38)

<400> 193
Met Cys Ser Cys Leu Gly Ala Ile Pro Asp Thr Ser Leu Gly Thr Ala
1 5 10 15

Phe Tyr Trp Trp Phe Phe Leu Leu Gln Thr Leu Pro Pro Met Ile Trp
20 25 30

Asn Phe Ile Ser Xaa Xaa Lys Arg Lys Asn Val
35 40

<210> 194
<211> 22
<212> PRT
<213> Homo sapiens

<400> 194
Met Lys His Gln Asn Pro Gly Glu Lys Ile Leu Ile Tyr Leu Phe Asn
1 5 10 15

Ile Thr Leu Leu Ser Gln
20

<210> 195
<211> 12
<212> PRT
<213> Homo sapiens

<400> 195
Met Thr Leu Lys Lys Asn Arg Glu Tyr Phe Phe Pro
1 5 10

<210> 196
<211> 74
<212> PRT
<213> Homo sapiens

<400> 196
Phe Phe Phe Leu Arg Trp Arg Leu Ala Leu Val Ala Gln Ala Gly Val
1 5 10 15

Gln Trp Arg Asp Leu Gly Ser Leu Gln Pro Pro Pro Pro Gly Phe Arg
20 25 30

Ala Phe Ser Cys Leu Ser Leu Ser Ser Ser Trp Asp Tyr Arg His Leu
35 40 45

Pro Asn Thr Pro Gly Ala Phe Phe Glu Phe Leu Val Glu Met Gly Phe
50 55 60

His His Leu Val Asp Met Gly Phe Pro His
65 70

<210> 197
<211> 66
<212> PRT
<213> Homo sapiens

<400> 197
Met Gly Arg Pro Thr Val Cys Thr His Leu Leu Ser Val Leu Val Glu
1 5 10 15

Val Pro Leu Pro Val Cys His Cys Arg Ser Glu Ser Arg His Gly Asp
20 25 30

Ser Leu Thr Pro Ser Ser Tyr Pro Pro Ser Ala Pro Thr Pro Pro Gln
35 40 45

Val Ser Trp Trp Cys His Leu Pro Pro Trp Gly Cys Val Thr Leu Gly
50 55 60

Lys Leu
65

<210> 198
<211> 72

<212> PRT
<213> Homo sapiens

<400> 198
Met Leu Pro Arg Leu Gly Gly Arg Arg Ala Ala Leu Gln Arg Leu Leu
1 5 10 15

Gly Leu Arg Pro Leu Leu Arg Val Pro Gly Arg Gly Gln Arg Glu Ala
20 25 30

Ala Gly Pro Ala His Leu Ser Ala Arg Pro Glu Ala Gly Thr Cys Ser
35 40 45

Gly Ala Glu Gln Thr His Glu Thr Met His Leu Phe Gly Ala His Ser
50 55 60

Phe Tyr Arg Gly Arg Tyr Pro Thr
65 70

<210> 199
<211> 29
<212> PRT
<213> Homo sapiens

<400> 199
Met Cys Thr Met Cys Ser Thr Leu Ser Tyr Met Leu Tyr Met His Tyr
1 5 10 15

Phe Ser Lys Ser Thr Val Val Ser Arg Val Val Ser Arg
20 25

<210> 200
<211> 26
<212> PRT
<213> Homo sapiens

<400> 200
Met Cys Thr Met Cys Ser Thr Leu Ser Cys Met Leu Tyr Met His Tyr
1 5 10 15

Phe Ser Lys Ser Thr Gln Arg Tyr Tyr Glu
20 25

<210> 201
<211> 75

<212> PRT
<213> Homo sapiens

<400> 201
Met Cys His Ser Leu Arg Leu Lys Leu Pro Ser Cys Ser Glu Ser Lys
1 5 10 15

Trp Leu Asn Gln Asp Ser Arg Pro Tyr Leu Leu Thr Leu Asn Ser Lys
20 25 30

Leu Leu Trp Trp Lys Gly Leu Gly Asp Ser Arg Thr Ala Leu Pro His
35 40 45

Asp Ala Arg Cys Pro Gly Gln Thr Phe Thr Ile Phe His Phe Pro Asp
50 55 60

Phe Leu Asn Leu Pro Ser Phe His Ile Thr Val
65 70 75

<210> 202
<211> 75
<212> PRT
<213> Homo sapiens

<400> 202
Met Phe Phe Lys Ala Lys Glu Leu Val Leu Met Lys Thr Leu Phe Ser
1 5 10 15

Glu Arg Leu Ile Ser Lys Lys Ile His Asn Lys Ala Cys Leu Leu Arg
20 25 30

Tyr Asn Asp Phe Gln Thr His Ser Val Ser Thr Phe Leu Val Ala Ile
35 40 45

Phe Leu His Cys Asp Leu Val Leu Leu Gln Leu Leu Lys Leu Phe Cys
50 55 60

Phe Asn Leu Thr Trp Phe Tyr Pro Ser Leu Lys
65 70 75

<210> 203
<211> 40
<212> PRT
<213> Homo sapiens

<220>

<221> UNSURE
<222> (4)..(32)

<400> 203
Met Leu Leu Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
1 5 10 15

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
20 25 30

Gln Lys Ser Gly Ser Leu Pro Leu
35 40

<210> 204
<211> 33
<212> PRT
<213> Homo sapiens

<220>
<221> UNSURE
<222> (4)..(5)

<400> 204
Met Leu Ile Xaa Xaa Gln Tyr Tyr Ile Ile Ile Tyr Asn Leu Lys Leu
1 5 10 15

Tyr Met Ile Ile His Lys Val Lys Leu Tyr Ile Ile Ile Ser Ile Ile
20 25 30

Leu

<210> 205
<211> 34
<212> PRT
<213> Homo sapiens

<400> 205
Met Ala Gly Leu Lys Ile Val Gln Ile Phe Phe Ile Leu Tyr Met Ala
1 5 10 15

Gly Pro Arg Asn Val Gln Ile Phe Met Phe Cys Phe Pro Leu Asn Tyr
20 25 30

Lys Leu

<210> 206
<211> 68
<212> PRT
<213> Homo sapiens

<220>
<221> UNSURE
<222> (60)

<400> 206
Met Leu Phe Thr Gly Val Ser His His Glu Asp Tyr Gly Trp Phe Cys
1 5 10 15

Leu Trp Arg Pro Gly Leu Pro Ala Ser Asp Arg Gly Leu Thr Gly Phe
20 25 30

Ser Val Lys Arg Phe Thr Val Val His Lys Ser Lys Gln Thr Ser Ser
35 40 45

Gly Glu Ile Glu Val Leu Leu Leu Gly Thr Leu Xaa Leu Cys Glu Val
50 55 60

Lys Ser Ile Cys
65

<210> 207
<211> 62
<212> PRT
<213> Homo sapiens

<220>
<221> UNSURE
<222> (56)

<220>
<221> UNSURE
<222> (62)

<400> 207
Met Leu Ile Lys Val Val Pro Lys Trp Ala Val Thr Ser Ile Thr Gly
1 5 10 15

Pro Asn Leu Thr Ala Lys Leu Gln Val Gly His His His Tyr His Leu
20 25 30

Glu Thr Val Asn Ile Val Trp Arg Leu Thr Leu Tyr Thr His Ser Tyr
35 40 45

Met Ala Met Cys Lys Leu Ser Xaa Pro Val Ala Gly Pro Xaa
50 55 60

<210> 208
<211> 53
<212> PRT
<213> Homo sapiens

<400> 208
Met Leu Phe Ser Ile Ser Leu Gln Leu Gly Cys Ala Leu Ala Val Leu
1 5 10 15

Cys Asn Thr Gly Phe Ser Lys Arg Asn Lys Gly Gln Leu Ala Leu Leu
20 25 30

Ser Glu Ile Cys Leu Lys Asn Phe Ile Ser Gln His Arg Phe Leu Met
35 40 45

Arg Phe Ser Lys Lys
50

<210> 209
<211> 83
<212> PRT
<213> Homo sapiens

<220>
<221> UNSURE
<222> (81)

<400> 209
Met Pro Pro Gly Pro Pro Ala Gln Asp Ile Met Val Pro Arg Glu Arg
1 5 10 15

Glu Pro Gln Gly His Trp Gln Glu Leu Pro Ile Pro Ser Pro Trp Val
20 25 30

Gly Ser Arg Trp His Arg Lys Gly Gly Pro Gly Gly Leu Val Thr Trp
35 40 45

Glu Leu Pro Leu Glu Ala Ile Ser Arg Gly Leu Arg Val Gly Arg Gly
50 55 60

Gly Phe Gly Val Phe Cys Leu Cys Arg Val Arg Gln Gly Arg Leu Gly
65 70 75 80

Xaa Arg Arg

<210> 210
<211> 34
<212> PRT
<213> Homo sapiens

<400> 210
Met Leu Glu Tyr Leu Glu Val Asn Ser His Cys Ile Cys Tyr Leu Lys
1 5 10 15

Tyr Tyr Thr Asn Lys Gln Asp Glu Ala Lys Leu Leu Ser Leu Asp Met
20 25 30

Gly Leu

<210> 211
<211> 95
<212> PRT
<213> Homo sapiens

<400> 211
Met Ala Ser Ser Gln Leu Gly Tyr Val Cys Ser Cys Val Ala Ala Asn
1 5 10 15

Met Ser Met Pro Ala Ser His Ser Ala Leu Ser His Thr Val Met Gly
20 25 30

Thr Asn Ile Gln Glu Glu Gln Lys Ser Arg Pro Trp Val Leu Phe Ser
35 40 45

Pro Cys Gln Arg Cys Ser Pro Thr Ala Pro Gly Asp Leu Gly Trp Glu
50 55 60

Lys Asn Gln Ser Leu Thr Ser His Pro Thr Ala Phe Cys Phe Leu Thr
65 70 75 80

Leu Leu Arg Ser Gly Ser Ser Arg Pro Gly Gly Leu Gly Gln Gly
85 90 95

<210> 212
<211> 33
<212> PRT
<213> Homo sapiens

<400> 212
Met Val Ile His Thr His Lys Val Ala Ala Tyr Ile Asp His Gln His
1 5 10 15

Ala Lys Asn Met Asn Leu Gly Ile Ile Ser Pro Ala Glu Ser Gln Val
20 25 30

Gln

<210> 213
<211> 37
<212> PRT
<213> Homo sapiens

<220>
<221> UNSURE
<222> (6)

<400> 213
Met Glu Ser Leu Leu Xaa Leu Leu Gln Ile Pro Asn Ser Leu Ser Lys
1 5 10 15

Thr Leu Lys Ile Phe Tyr Asn Ser Glu Glu Glu Lys Ile Arg Ala Arg
20 25 30

Gln Val Lys Asn Val
35

<210> 214
<211> 45
<212> PRT
<213> Homo sapiens

<400> 214
Met Thr Leu Val Arg Ser Val Leu Glu Gln Phe Ala Glu Pro Cys Lys
1 5 10 15

Ile Asp Gly Ala Tyr Leu Phe Pro Ala Leu Cys Ser Ser Met Pro Asp
20 25 30

Arg Gln Thr Glu Ile Ser Arg Asp Lys Asn Val Tyr Thr
35 40 45

<210> 215
<211> 21
<212> PRT
<213> Homo sapiens

<400> 215
Met Asn Arg Asp Ala Ala Phe Asp Ser Val Leu Val Leu Asp Ser Ala
1 5 10 15

Phe Gly Phe Phe Phe
20

<210> 216
<211> 46
<212> PRT
<213> Homo sapiens

<400> 216
Met Lys Ala Ile His Leu Val Lys Arg Asn Gly Ser Arg Ala His Val
1 5 10 15

Arg Arg Asp Ile Glu Arg Glu Gln Ile Pro Ser Arg Ser Val Leu Ala
20 25 30

Ser Ala Ala Thr Ser Asn Leu Asn Asn Ser Val Ser Leu Phe
35 40 45

<210> 217
<211> 81
<212> PRT
<213> Homo sapiens

<220>
<221> UNSURE
<222> (5)

<400> 217
Met Leu Pro Arg Xaa Gln Phe Pro Glu Ala Ala Ala Leu Gly Arg Ala
1 5 10 15

Gly Cys Trp Val Gly Gln His Ser Ala Ala Glu Ala Asp Pro Glu Gly
20 25 30

Leu Thr Ala Gly Gly His Leu Pro Ser Ser Leu Leu Gln Leu Asp Gly
35 40 45

Lys Ala Phe Leu Glu Glu Gly Gly Pro Gly Asn Ala Phe Pro His Leu
50 55 60

Leu His Leu Tyr Pro Leu Thr Leu Arg Asp Leu Ala Thr Cys Leu Gln
65 70 75 80

Thr

<210> 218
<211> 49
<212> PRT
<213> Homo sapiens

<400> 218
Met Pro Asn Cys Cys Ser Glu Lys Met Gln Ser Phe Thr Gln His His
1 5 10 15

Gln Gln Arg Pro Asn Ala Pro Gly His Cys Asp Phe Ala Ala Ser Gly
20 25 30

Met Leu Ile Ile Phe Gly Phe Ala Asn Leu Thr Gly Tyr Arg Ile Ile
35 40 45

Phe

<210> 219
<211> 20
<212> PRT
<213> Homo sapiens

<400> 219
Met Cys Ser Glu Arg Arg Ser Arg Gln Gly Pro Asp Tyr Ile Gly Leu
1 5 10 15

Cys Lys Ser Glu
20

<210> 220
<211> 115

<212> PRT
<213> Homo sapiens

<400> 220
Met Val Phe Leu Phe Val Cys Leu Phe Val Leu Arg Trp Asn Phe Ala
1 5 10 15

Phe Val Ala Gln Ala Gly Val Gln Trp Cys Ser Leu Gly Pro Arg Gln
20 25 30

Pro Pro Pro Pro Arg Phe Asn Ala Phe Ser Cys Leu Asn Leu Pro Ser
35 40 45

Ser Ala Asp Ala Arg Arg Ala Pro Pro Tyr Pro Ala Asn Phe Phe Leu
50 55 60

Phe Phe Phe Phe Phe Ala Val Glu Met Glu Phe His His Val Gly Gln
65 70 75 80

Ala Gly Leu Lys Leu Leu Thr Ser Gly Asp Pro Pro Thr Leu Ala Ser
85 90 95

Glu Ser Ala Gly Ile Thr Gly Val Ser His Cys Ala Gln Pro Asp Ser
100 105 110

Asn Phe Phe
115

<210> 221
<211> 56
<212> PRT
<213> Homo sapiens

<400> 221
Met His Lys Gln Lys Gln Glu Arg Leu Glu Cys Asn Ser Ile Glu Ser
1 5 10 15

Ser Glu Gly Gly Val Val Thr Pro Ala Glu Arg Glu Arg Glu Gln Gly
20 25 30

Pro Gln Ser Gln Ala Gly Trp Gln Gln Val Leu Leu Cys Pro His Leu
35 40 45

Gln Leu Gly Asp Ala Arg Arg Gly
50 55

<210> 222
<211> 62
<212> PRT
<213> Homo sapiens

<400> 222
Met Lys Ser Asn Pro Glu Met Ile Lys Gly Lys Ser Tyr Asn Lys Thr
1 5 10 15

Tyr Lys Cys Thr Phe Ala Leu Leu Leu Ser Thr Ser Leu Ala Asp Ile
20 25 30

Lys Leu Cys Asn Ile Val Ile Ile Thr Ile Tyr Cys Tyr Ile Cys Asn
35 40 45

Ile Tyr Arg Tyr Asn Ile Tyr Asn Ile Ser Thr Thr Lys Ser
50 55 60

<210> 223
<211> 55
<212> PRT
<213> Homo sapiens

<400> 223
Met Phe Trp Leu Tyr Ser Lys Ile Glu His Leu Val Ile Ile Phe Arg
1 5 10 15

Asn Thr Arg Ile Ser Lys Thr Gln Ile Phe Trp Pro Val Thr Cys Gly
20 25 30

Leu Tyr Ser Leu Lys Val Leu Lys Ile Ile Lys Val Arg Leu Leu Ile
35 40 45

Met Ile Leu Asp Asn Arg Ile
50 55

<210> 224
<211> 17
<212> PRT
<213> Homo sapiens

<400> 224
Met Arg Asn Cys Asn Ser His Arg Gly Pro Pro Arg Gly Val Glu Glu
1 5 10 15

Gly

<210> 225
<211> 38
<212> PRT
<213> Homo sapiens

<400> 225
Met Thr Val Gly Trp Thr His Val Lys Ala Pro Pro Leu Ala Phe Arg
1 5 10 15

Gly Trp Leu Ser Asn Glu Thr Leu Val Ser Leu Leu Asp Lys Thr Thr
20 25 30

Ile Arg Ala Leu Cys Ile
35

<210> 226
<211> 51
<212> PRT
<213> Homo sapiens

<400> 226
Met Thr Lys Leu Trp Ile Gln Pro Met Leu Gln Arg Ser Pro His Ser
1 5 10 15

Cys His Ala Ser Ala Ser Asn Pro Glu Met Ala Tyr Thr Leu Pro Arg
20 25 30

Asp Val Thr Ser Thr Gln Gln Ala Pro Gly Phe Ser His Leu Cys Thr
35 40 45

Thr Leu Gln
50

<210> 227
<211> 81
<212> PRT
<213> Homo sapiens

<400> 227
Arg Val Arg Glu Cys Gln Val Leu Phe Leu Ala Gly Lys Thr Lys Gly
1 5 10 15

Cys Phe Tyr Ser Pro Pro Tyr Leu Asp Asp Tyr Gly Glu Thr Asp Gln

20 25 30

Gly Leu Arg Arg Gly Asn Pro Leu His Leu Cys Lys Glu Arg Phe Lys
35 40 45

Lys Ile Gln Lys Leu Trp His Gln His Ser Val Thr Glu Glu Ile Gly
50 55 60

His Ala Gln Glu Ala Asn Gln Thr Leu Val Gly Ile Asp Trp Gln His
65 70 75 80

Leu

<210> 228
<211> 25
<212> PRT
<213> Homo sapiens

<400> 228
Met Gln Ile Thr Leu Trp Gln Ile Leu Arg Arg Gly Leu Phe Thr Ser
1 5 10 15

Tyr Tyr Thr Tyr Asn Lys Gly Asn Lys
20 25

<210> 229
<211> 93
<212> PRT
<213> Homo sapiens

<220>
<221> UNSURE
<222> (42)

<220>
<221> UNSURE
<222> (91)

<400> 229
Met Asn Val Thr Trp Val Ser Lys Gly Leu Pro Lys Lys Leu Glu Gln
1 5 10 15

Ser Gly Ala Pro Gly Ser Ala Pro Asn Pro Trp Thr Leu Ala Val Ser
20 25 30

Leu Pro Glu Pro Glu Pro Val Gln Cys Xaa Ser Ser Val Cys Gly Gln
35 40 45

Lys Leu Gln Thr Pro Glu Asn Cys His Leu Arg Cys Trp Lys Ser Leu
50 55 60

Leu Ser Leu Thr Asn Cys Gln Gln Gly Glu Cys Ala Gln Phe Trp Arg
65 70 75 80

His Ser Phe Pro Gly Asp Trp Glu Cys Ser Xaa Trp Val
85 90

<210> 230
<211> 28
<212> PRT
<213> Homo sapiens

<400> 230
Met Gly Glu Ile Phe Lys Glu Glu Lys Ile Glu Asn Ile Leu Met His
1 5 10 15

Phe Lys Asn Thr Gly Leu Ser Ala Pro Ser Val Arg
20 25

<210> 231
<211> 98
<212> PRT
<213> Homo sapiens

<400> 231
Leu Arg Arg Ser Leu Ala Leu Ser Leu Arg Leu Glu Cys Asn Gly Thr
1 5 10 15

Val Leu Ala His Cys Asn Phe His Phe Pro Gly Ser Ser Asn Ser Pro
20 25 30

Asp Ser Ala Ser Arg Val Ala Gly Ile Thr Gly Thr His Asn Arg Thr
35 40 45

Gln Leu Ile Phe Val Phe Leu Val Glu Met Gly Phe His His Pro Gly
50 55 60

Gln Thr Gly Leu Glu Leu Met Thr Ser Asp Pro Ser Thr Leu Ala Ser
65 70 75 80

Gln Asn Ala Gly Ile Thr Gly Val Ser His His Thr Trp Pro Ser Gln

85 90 95

Ala Tyr

<210> 232
<211> 56
<212> PRT
<213> Homo sapiens

<400> 232
Met Pro Gly Ser Pro Thr Met Pro Leu Phe Ser Thr Tyr Pro Thr Pro
1 5 10 15

Asn Pro Ser Ala Asn Leu Val Asn Ser Glu Phe Arg Ile Tyr Pro Thr
20 25 30

Ser Glu Cys Ile Phe Pro Ser Leu His Gln Ser Pro Ser Phe Lys Pro
35 40 45

Pro Ser Phe Leu Thr Gly Leu Ser
50 55

<210> 233
<211> 43
<212> PRT
<213> Homo sapiens

<400> 233
Val Leu Leu Cys Cys Pro Gly Trp Ser Arg Thr Pro Ile Leu Lys Ala
1 5 10 15

Ser Ser His Leu Ser Leu Pro Lys Phe Trp Asn Ser Arg Cys Gln Pro
20 25 30

Pro Arg Leu Ala Leu Ile Tyr Ile Ala Thr Gly
35 40

<210> 234
<211> 48
<212> PRT
<213> Homo sapiens

<400> 234
Met Asn Ile Gln Asn Lys Glu Met Val Pro Met Thr Ala Thr Ile Phe

```
  1               5                  10                  15

Arg Arg His Tyr Arg Cys His Pro Met Pro Leu Ala Lys Lys Lys Ser
             20                  25                  30

Phe Arg His Phe Gly Ile Glu Arg Lys Arg Tyr Asn Asn Leu Tyr Leu
         35                  40                  45
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<210> 235
<211> 65
<212> PRT
<213> Homo sapiens

<400> 235

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Met His Ile Ile Tyr Tyr Asn Thr Leu Val Lys His Gln Leu Leu Ala
  1               5                  10                  15

Val Thr Phe Ser Cys Pro Ser His Cys Arg Cys Lys Asp Lys Cys Phe
             20                  25                  30

Tyr Leu Lys Ala Phe Pro His Phe Trp Glu Glu Glu Leu Pro Leu Leu
         35                  40                  45

Val Lys Ile Leu Ala Val Leu Cys Leu Met Ala Ile Ser Glu Lys Ser
     50                  55                  60

His
 65
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<210> 236
<211> 67
<212> PRT
<213> Homo sapiens

<400> 236

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Met Ile Thr Lys Ser Val Pro Leu Phe Phe Leu Ile Gly Asp Ala Ser
  1               5                  10                  15

Cys Val Val Ser Phe Leu Glu Glu Glu Asp Phe Leu Ser Arg Pro Leu
             20                  25                  30

Arg Arg Leu Phe Leu Val Ile Ser Lys Met Ile Ala Tyr Ala Leu Val
         35                  40                  45
```

Glu Ile Ile Leu Ala Ala Leu Ile Asn Lys Pro Pro Asn Leu Trp Asp
50 55 60

Leu Ala Lys
65

<210> 237
<211> 23
<212> PRT
<213> Homo sapiens

<400> 237
Met Lys Trp Glu Asn Ser Ser Asn Asp Thr Asn Tyr His Asn Ser Leu
1 5 10 15

Lys Ile Lys His Thr Tyr Thr
20

<210> 238
<211> 63
<212> PRT
<213> Homo sapiens

<400> 238
Met Gln Pro Leu Asn Lys His Ser Leu Arg Leu Leu Cys Gln Ala Met
1 5 10 15

Glu Ile Ser Glu Pro Pro Gln Gly Val His Arg Pro Val Glu Glu Lys
20 25 30

Glu Met Gln Gln Gly Asp Ile Gly Ile Phe Leu Val Ser Leu Met Asp
35 40 45

Phe Glu Asp Ser Ala Ile Met Arg Thr Val Phe Arg Glu Glu Glu
50 55 60

<210> 239
<211> 63
<212> PRT
<213> Homo sapiens

<400> 239
Met Asp His Thr Ser Leu His Gly Phe Ala His Ile Glu Ile Ile Tyr
1 5 10 15

Ser Ala Gly Gly Ser Leu Val Leu Lys Ile Asp Ser His Gly Ile Ile
20 25 30

Lys Glu Ser Asn Cys Val Gln Pro Asn Ile Arg Ser Ser Gly Phe Gln
35 40 45

Ile Ser Lys Ala Cys Tyr Leu Met Tyr Ser Ser Ile Leu Gly Cys
50 55 60

<210> 240
<211> 86
<212> PRT
<213> Homo sapiens

<400> 240
Met Leu Val Ile Tyr Ile Phe Leu Glu Thr Met His Phe Ile Trp Ile
1 5 10 15

Leu Asp Phe Phe Lys Met Tyr Met Leu Phe Tyr Ile Tyr Phe Val Thr
20 25 30

Cys Ile Met Ile Thr Tyr Met Ile Lys Met Ile Tyr Val Ile Leu Phe
35 40 45

Ile Phe Lys Lys Phe Ser Leu Phe Val Ile Ile Ser Pro Tyr Leu Leu
50 55 60

Ser Ser Thr Asn Leu Gln Ser Arg Leu Val Gln Ile Thr Arg Tyr Phe
65 70 75 80

Ser Met Leu Phe Asn Ser
85

<210> 241
<211> 49
<212> PRT
<213> Homo sapiens

<220>
<221> UNSURE
<222> (7)

<220>
<221> UNSURE
<222> (21)..(39)

<400> 241
Met Leu Val Trp Gly Thr Xaa Lys Gly Pro Ile Cys Phe Ser Leu Asn
1 5 10 15

Asn Asn Lys Ile Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
20 25 30

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Leu Pro Tyr Gly Thr Phe Lys Cys Gly
35 40 45

Lys

<210> 242
<211> 63
<212> PRT
<213> Homo sapiens

<400> 242
Met Gln Val Val Tyr Arg Ala Lys Leu Val Gly Leu Ala Thr Ile Leu
1 5 10 15

Asn Ile Ser Ile Lys Arg Thr Arg Arg Glu Thr His Met Met Ile Ser
20 25 30

Leu Phe Pro Arg Gly Ile Leu Gly Arg Gly Asn Asn Glu Ala Val Glu
35 40 45

Val Ser Tyr Asn Leu Lys Gln Phe Phe Ser Leu Leu Ala Ile Ser
50 55 60

<210> 243
<211> 36
<212> PRT
<213> Homo sapiens

<400> 243
Met Thr Glu Arg Ser Glu Met Met Val Cys Leu Val Leu Leu Pro Thr
1 5 10 15

Ser Asn Leu Cys Phe Ser Lys Leu Leu Tyr Val Ile Ile Leu Val Leu
20 25 30

Lys Ile Pro Leu
35

<210> 244
<211> 30
<212> PRT
<213> Homo sapiens

<400> 244
Met Tyr Thr Tyr Phe Arg Ser Ser Tyr Lys Tyr Phe Glu Ile Arg Ser
1 5 10 15

Phe Pro Pro Ser Trp Gln Pro His Ile Tyr Tyr Ile Ser Leu
20 25 30